

1987

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Census of Construction Industries

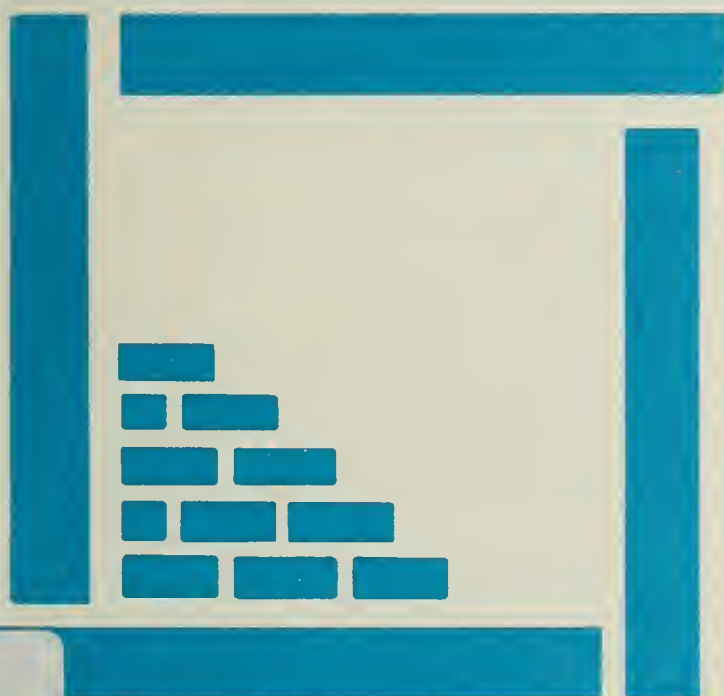
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DOGRAPHIC AREA SERIES

West North Central States

Iowa, Kansas, Minnesota, Missouri,
Nebraska, North Dakota, South Dakota



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Many persons participated in the various activities of the 1987 Census of Construction Industries.

The overall planning and review of the census operations were performed by the staff of the Office of the Assistant Director for Economic and Agriculture Censuses.

This report was prepared in the Construction Statistics Division. **Barry A. Rappaport**, Assistant Division Chief for Industry Surveys, was responsible for the overall planning, management, and coordination of the census of construction industries. Planning and implementation were under the direction of **A. William Visnansky**, Chief, Census Operations Branch, with primary staff assistance by **Juliana Van Berkum**, **Barbara J. Hadden**, **Edward R. Glover**, **Susan L. Hostetter**, **Shirley M. Baker**, and **Carolyn J. Stone**. Under the direction of **Jesse Pollock**, **Edward K. Ricketts** and **Dennis K. Duke** developed the sampling plans and variance and estimation specifications.

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If you have any questions concerning the statistics in this report, call (301) 763-7546.

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GEOGRAPHIC AREA SERIES

West North Central States

Iowa, Kansas, Minnesota, Missouri,
Nebraska, North Dakota, South Dakota

Issued June 1990



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PURPOSE AND USES OF THE ECONOMIC CENSUSES

The economic censuses are the major source of facts about the structure and functioning of the Nation's economy. They provide essential information for government, business, industry, and the general public.

Economic censuses furnish an important part of the framework for such composite measures as the gross national product, input-output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policy-making agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries, and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic censuses every 5 years, covering years ending in 2 and 7. The 1987 Economic Censuses consist of the—

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Transportation
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1987 Census of Agriculture and 1987 Census of Governments are conducted separately.) The next economic censuses are scheduled to be taken in 1993 covering the year 1992.

AVAILABILITY OF THE DATA

The results of each of the economic censuses are available in printed reports, for sale by the U.S. Government Printing Office, and on microfiche, computer tape, compact discs with read-only memory, and flexible diskettes, for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Census Bureau, Washington, DC 20233. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State Data Centers in every State and Business and Industry Data Centers in many States also supply economic census statistics.

WHAT'S NEW IN 1987

Several changes have taken place for the 1987 censuses. Data will be reported on the basis of the newly revised Standard Industrial Classification (SIC) system with selected reports including "bridge tables," linking the old and new classification systems. A new set of metropolitan

areas has been adopted, and more detailed information will be available for businesses with no paid employees. For additional information on these changes, review the subsequent text.

One important change involves receipts of contractors and builders. Prior to 1987, the Census of Construction Industries collected receipts as the primary measure of construction activity. For 1987, the census collected the "value of construction work done" to better measure actual construction activity done during the year. Differences between the two concepts occur when work is done in one year and payment received either from the prior or in the succeeding year. In addition, receipts do not include work a contractor performs for its own account and use.

HISTORICAL INFORMATION

The economic censuses have been taken together as an integrated program at 5-year intervals since 1967, and before that for 1963, 1958, and 1954. Prior to that time, the individual censuses were taken separately at varying intervals.

The economic censuses trace their beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 manufactures census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade, and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 economic censuses were the first to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. These were the first censuses to be taken by mail, using lists of firms provided by the administrative records of other federal agencies. Since 1963, administrative records have also been used to provide basic statistics as well for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic censuses, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The Census of Construction Industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The Census of Transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks. New for 1987 are publications reporting on business establishments engaged in several transportation industries, paralleling the data on establishments in

other sectors. This is part of a gradual expansion in coverage of industries previously subjected to government regulation. The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic censuses in 1972 along with the Survey of Women-Owned Businesses.

Economic censuses have also been taken in Puerto Rico since 1909, in the Virgin Islands and Guam since 1958, and in the Northern Mariana Islands since 1982.

Statistical reports from the 1982 and earlier censuses provide historical figures for the study of long-term time series, and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the censuses provide complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Construction Reports* (building permits, housing starts, and value of new construction put in place), *Current Business Reports* (retail and wholesale trade and service industries), the *Annual Survey of Manufactures*, *Current Industrial Reports*, and the *Quarterly Financial Report*. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the censuses. The *County Business Patterns* program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1987 Economic Censuses and Related Statistics*. More information on the methodology, procedures, and history of the censuses will be published in the *History of the 1987 Economic Censuses*. Contact Customer Services for information on availability.

CENSUS OF CONSTRUCTION INDUSTRIES—SCOPE AND CLASSIFICATION

The 1987 Census of Construction Industries covers all employer establishments (establishments with payroll) primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property

into lots as defined in the 1987 Standard Industrial Classification (SIC) Manual.¹ This industrial classification system has been developed by experts on classification in government and private industry under the guidance of the Office of Management and Budget and is in general use among government agencies and among organizations outside the government.

Contract construction—The SIC manual defines construction in three broad types of activity that follow:

1. **Building construction by general contractors or by operative builders**—General building contractors are primarily engaged in the construction of dwellings, office buildings, stores, farm buildings, and other building projects. Operative builders who build on their own account for sale are also included here. However, investment builders who build structures on their own account for rent are classified in Real Estate.
2. **Heavy construction general contractors**—Heavy construction general contractors are primarily engaged in the construction of highways, bridges, pipelines, sewers and water lines, marine construction, power, and petro-chemical plants and other nonbuilding construction projects. Special trade contractors are classified in heavy construction if they are specifically engaged in the following activities: grading for highway and airport runways; guardrail construction; installation of highway signs; asphalt and concrete construction of roads, highways, streets and public sidewalks; trenching, cable laying; conduit construction; underwater rock removal; pipeline wrapping; or land clearing and leveling.
3. **Construction by other special trade contractors**—These contractors include plumbers, painters, carpenters, electricians, brick layers, roofers, etc. For the most part, they perform their work at the site of construction, although they may also have shops where they perform work incidental to the job site.

General contractors in both the building and the heavy construction field usually assume responsibility for an entire construction project, but may subcontract to others all of the actual construction work or those portions of the project requiring special skills or equipment. Special trade contractors may work for general contractors, for other subcontractors, or may work directly for the owner of the property.

In addition to the industries classified in the SIC manual as Construction, this census also includes one industry

classified in the Real Estate area, SIC 6552, Land Subdividers and Developers, Except Cemeteries. These establishments are engaged in subdividing real property into lots and in developing it for sale on their own account.

Each establishment receiving a questionnaire was requested to report the percent of total dollar value of business done for each kind-of-business activity engaged in during 1987. This information was used for the computer assignment of appropriate industry classifications. During this work, various tests were also made using other data reported on the questionnaire. The proportion of construction work to total business was checked to verify that the establishment was primarily in construction. Also taken into consideration were the types of structures worked on during the year and the extent of work undertaken for other contractors.

Construction establishments often engage in various construction activities. It is necessary, however, to assign a single industry code to the establishment based on its major activity. Therefore, the statistics shown for an industry reflect not only the primary activity of the establishments in the industry, but also their secondary activities. The industry reports, however, do present data on the extent of secondary activities.

A revised edition of the SIC Manual was issued in 1987. Minor modifications were made to three industries in the construction sector: SIC 1611, Highway and Street Construction Contractors, Except Elevated Highways; SIC 1629, Heavy Construction Contractors, N.E.C.; and SIC 1771, Concrete Work Special Trade Contractors. The extent of these modifications are explained in the specific texts for those industries. "Bridge tables" are also included showing selected data tabulated using both the previous classification system and the 1987 revision.

ESTABLISHMENT BASIS OF REPORTING

The census of construction industries is conducted on an establishment basis. A "construction establishment" is defined as a relatively permanent office or other place of business where the usual business activities related to construction are conducted. With some exceptions, a relatively permanent office is one which has been established for the management of more than one project or job and which is expected to be maintained on a continuing basis. Such "establishment" activities include, but are not limited to estimating, bidding, purchasing, supervising, and operation of the actual construction work being conducted at one or more construction sites. Separate construction reports were not required for each project or construction site.

Companies with more than one construction establishment were required to submit a separate report for each such establishment operated during all or any part of 1987. The census of construction industries figures represent a summary of records for individual establishments rather than for companies. The census tabulations, therefore, differ from those prepared on a company basis.

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

If an establishment engaged in construction and one or more distinctly different lines of economic activity (wholesale or retail trade, service, manufacturing, mining, etc.) at the same place of business, it was requested to file a separate report appropriate to each activity, provided that the activity was of substantial size and separate records were maintained or substantially accurate estimates could be prepared.

If a separate establishment report could not be prepared for each activity, then a construction report was requested covering all activities of that establishment providing that the 1987 value of construction work exceeded the gross receipts from each of its other activities.

Construction businesses with no payroll during 1987 (nonemployers) were not required to file census reports. Tabulation of data for these businesses are based on administrative records and are shown only in U.S. summary publications and the geographic area reports series. Refer to the section on "Sample Design" for details. Foreign construction activities were not included in this census.

SAMPLE DESIGN, ESTIMATION PROCEDURES, AND RELIABILITY OF ESTIMATES

The companies included in the 1987 Census of Construction Industries were identified as part of an operation common to all 1987 Economic Censuses. Construction companies were divided into employers (companies with payroll) and nonemployers (companies without payroll). Statistical information for the employers was obtained in the census by a survey which included all medium size and large employers and a sample of the smaller ones. Census reports were not required from the nonemployers. Statistics on them were obtained from administrative records of other agencies of the Federal Government.

Employer Companies

Developing the sampling frame for employer companies—This operation started with obtaining a list of all construction companies in the active records of the Internal Revenue Service (IRS) which were subject to payment of Federal Insurance Contributions Act taxes. The basic source for this list has been the Internal Revenue Service Business Master File, a comprehensive list of companies engaged in business activities in the United States. The file contains the name, address, and form of ownership of each company and also indicates whether or not the company is subject to the FICA. Each company in this file is assigned a unique employer identification (EI) number which it uses in filing its various reports with the IRS. The Social Security Administration (SSA) maintains a similar list using the same identification numbers, which also contains information on the industrial classification of each company. The Bureau of the Census obtained both of these lists and combined them.

Under special arrangements which safeguarded the confidentiality of the information, the Bureau also obtained administrative records data on payrolls and receipts and added these data to the combined list. The list, thus created from the IRS-SSA information, was a list of employer companies. However, for the 1987 Economic Censuses the basic reporting unit is the "establishment." Therefore, steps were taken to identify the individual establishments of those companies which operate more than one place of business. The information for making this determination was obtained by means of the Company Organization Survey (COS), an annual canvass of all known multiestablishment companies and large single-establishment companies. Thus, the 1987 Economic Census list for single-establishment employer companies was obtained from the IRS-SSA, but the list of establishments of multiestablishment employer companies was obtained directly from those companies in the COS. Refer to the section on "Establishment Basis for Reporting" for details.

In general, the IRS-SSA list provided sufficient industrial classification data to assign a company to the proper economic census, but there were a number of companies for which this information was inadequate or unavailable. A special form, NC-9923, General Schedule, was mailed to all such companies, requesting information on the nature of the company's activities. From the information reported, the company was given an industrial classification code and assigned to the appropriate economic census. Since construction companies found in this way were identified only after the regular census mailing had taken place, they were treated as a supplement to the basic list.

Selecting the employer sample—The sample was designed to provide reliable State and metropolitan area estimates for each construction industry. It consisted of all construction establishments in multiestablishment companies, all single-establishment companies with estimated total employment of 20 employees or more, and a probability sample of single-establishment companies with estimated employment of fewer than 20 employees.

Supplementing the sample were construction companies identified from the NC-9923, General Schedule. Also affecting the sample were the misclassified companies; i.e., companies included in the samples of other trade areas which reported they were construction companies and companies originally classified in construction which reported they were not construction companies.

Of the 533,000 single-establishment employer companies initially classified as construction companies, 147,000 were included in the sample. All of the 13,000 establishments of multiestablishment companies were included in the sample. There was a net increase in the sample of 60,000 establishments resulting from establishments originally unclassified (receiving the NC-9923) or misclassified.

The probability sample of the smaller single-establishment companies was a stratified random sample. Strata were formed from all establishments with the same initial four-digit SIC code, in the same State, in the same metropolitan

area or in the balance of the State, and in the same size class based on estimated total employment. If the four-digit SIC code for an establishment was incomplete, the establishment was placed in a stratum for miscellaneous companies. Because they were small, all companies were included in the sample for the following three industries: SIC 1622, Bridge, Tunnel, and Elevated Highway Construction Contractors; SIC 1795, Wrecking and Demolition Work Special Trade Contractors; and SIC 1796, Installation or Erection of Building Equipment Special Trade Contractors.

Estimation procedures for 1987 and 1982 data—

Since all larger employer companies and some smaller ones were included in the census, sample estimation was required only for the universe of companies not selected with certainty. The published statistics are the totals of the estimates for the sampled companies and the aggregates for the certainty companies. All estimates for 1987 and 1982 published here are simple unbiased estimates of the form:

$$x'_c = \frac{\sum_{i=1}^{n_c} x_i}{n_c}$$

where: x'_c is the simple unbiased estimate of a characteristic for a publication cell.

x_i is the reported value of a characteristic for an individual establishment in the publication cell.

p_i is the selection probability of that firm.

n_c is the number of firms in the sample for the cell.

Data for certain characteristics were reported as a percentage of the dollar value of business done. Before this formula was applied to those characteristics, it was necessary to convert the reported percentages into dollars.

Reliability of employer statistics—Since the estimates for employer establishments in these reports are based on the samples, they are subject to sampling variability and may be expected to differ from results which would have been obtained if a complete census had been taken using the same forms and procedures. The sampling errors shown in the tables were estimated directly from the sample reports, using methods appropriate for the sample design and form of estimation used.

The relative standard error is a measure of sampling variability, i.e., the variation that might occur by chance because only a sample of the population is surveyed. As calculated for this report, the relative standard error also partially reflects the effect of random errors of response and processing, but it does not take into account the effect of any consistent biases due to those types of errors. The chances are about 68 out of 100 that an estimate from the

sample would differ from a complete census by less than the relative standard error. The chances are about 95 out of 100 that the difference is less than twice the relative standard error and about 99 out of 100 that it is less than 2-1/2 times the relative standard error. Individual estimates with large relative standard errors have been shown in the published tables. Any such estimates should be used with caution. The very large relative standard errors generally occur for the smaller estimates.

Relative standard errors have been calculated for all of the published statistics, although they are shown for each statistic only in the tables presenting detailed statistics. Other tables show relative standard errors only for certain characteristics because of lack of space.

As calculated for this report, the relative standard error measures certain nonsampling errors, but does not measure any systematic biases in the data. Bias is the difference, averaged over all possible samples with the same size and design, between the estimates and the true value being estimated. Nonsampling errors can be attributed to many sources: inability to obtain information about all cases in the sample; definitional difficulties; differences in interpretation of questions; inability or unwillingness of respondents to provide correct information; and errors made in processing the data. Although no direct measurements of the biases have been obtained, it is believed that most of the important response and operational errors were detected in the course of reviewing the data for reasonableness and consistency.

A potential source of bias is in the imputation for those establishments that have not responded by the time of final publication. Data were estimated for establishments that did not report by that date, although selected establishments were contacted again to obtain as much information on the telephone as possible. Some publication cells in which more than 40 percent of the data were not reported have been suppressed.

Nonemployer Companies

As described earlier, the information derived from the business income tax returns of all companies was matched to the census employer file on the basis of common identification numbers. Those business income tax returns which could not be matched, were further classified on the basis of several characteristics. Returns with characteristics consistent with companies without payroll were treated as nonemployers. The nonemployer construction companies were not required to file census reports.

For "number of establishments," each separate income tax return was assumed to be an establishment. "All business receipts", referred to in the tables as "dollar value of business done", was based on receipts information reported on the tax return.

Since no sampling was involved in the nonemployer establishments, the statistics for nonemployers are not subject to sampling variability. However, these data are subject to an unknown amount of reporting and processing errors which could not be detected by the Census Bureau.

CENSUS REPORT FORMS

Information for the 1987 Census of Construction Industries was obtained from employer establishments primarily through the use of twenty-four questionnaires, determined by industry classification and size. Standard forms and short forms were developed for each of the following SIC groups: 15, 16, 171, 172, 173, 174, 175, 176, 177, 178, and 179 and for the establishments classified in SIC 6552. Establishments with 50 or more employees all received the standard form. A sub-sample of establishments with fewer than 50 employees received short forms instead of the standard forms. The short forms covered only major items and omitted some of the detail found in the longer forms.

In reviewing and developing the questionnaires, comments and recommendations were elicited from construction trade associations and appropriate advisory groups. The Bureau surveyed several thousand firms representing all economic activities to gain insight into the way companies maintain records and to see whether new information could be collected.

DATA PROCESSING

The 1987 census report forms were mailed out in December 1987. They were mailed from and returned to the Census Bureau's Data Preparation Division in Jeffersonville, Ind., where routine editing and coding of the report forms were also accomplished. Collection of these report forms was essentially completed in July 1988.

The returned reports underwent extensive processing. A preliminary edit done at the time of data entry identified obviously deficient reports and reports needing clarification. When necessary, these problems were resolved by further contact with the respondents. Next, the data were transmitted to Census Bureau headquarters near Washington, DC.

Data records, then, underwent a detailed computer review and analysis. The records containing significant problems were referred for further analytical review and, if necessary, contacts were made with the respondents. The computer performed most classification coding (such as industry coding, geographic coding, and size coding), and imputation for missing items or for reports not received in time for tabulation. The imputation was performed on an industry (or industry group)-State (or geographic group) basis using all available response and administrative data.

The data records were then tabulated on an industry basis. Industry totals were subjected to analytical review, and selected statistics were prepared for the preliminary reports. Corrections resulting from this review were made to the computer records and final tabulations were produced.

The review of a preliminary report for an industry often uncovered the need for corrections or revisions to the data for another industry for which a preliminary report had already been published. The final reports incorporate all

revisions and corrections made during the review of the preliminary reports and contain considerable more data than were published in those reports.

GEOGRAPHIC CLASSIFICATION

Information for the 1987 Census of Construction Industries' final industry report series is classified on the basis of two types of geographic distributions: (1) physical location of the establishment, and (2) location of construction work. A separate code was assigned on each basis allowing us to present data by both physical locations of the establishment and location of construction work.

The geographic area reports series presents similar data by industry for each State (physical location of the establishment) and for selected MSA's, CMSA's and PMSA's.

DUPLICATION IN VALUE OF CONSTRUCTION WORK

The aggregate of value of construction work reported by all construction establishments in each of the several industry, geographic area, or other groupings in this census, contains varying amounts of duplication, since the construction work of one firm may be subcontracted to other construction firms and also be included in the subcontractors' value of construction work. To avoid this duplication, a "net" value of construction work figure has been derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work.

Duplication in value of business between other construction and nonconstruction industries, results from the use of products of these other industries as input materials by construction establishments. "Value added," avoids this duplication and is, for most purposes, the best measure for comparing the relative economic importance of industries or areas. "Value added," is defined in the 1987 Census of Construction Industries as equal to dollar value of business done less costs for construction work subcontracted to others and payments for materials, components, supplies, and fuels. However, for SIC 6552 and SIC 1531 where land receipts are significant, land receipts are also subtracted from dollar value of business done.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1987 Census of Construction Industries may be obtained on computer tape or in tabular form. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications.

Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact and detailed specifications of the type and format of the data to be provided, should be directed to the Chief, Construction Statistics Division, Bureau of the Census, Washington, DC, 20233.

To discuss a special tabulation before submitting specifications, call 301-763-7546.

COMPARABILITY OF CENSUS OF CONSTRUCTION INDUSTRIES DATA WITH OTHER DATA

Data contained in the reports of the 1987 Census of Construction Industries are not the same as the data published in the Census Bureau's monthly Construction Reports, Series C30, Value of New Construction Put in Place. The main difference is that the C30 series covers all new construction put in place without regard to who is performing the construction activity, whereas the construction census figures cover both new construction and maintenance and repair work done by establishments classified in the construction industry. Significant amounts of construction are done by establishments classified outside of construction (in real estate, manufacturing, utilities and communications, for example), both as "force account" construction and construction done for others. In addition, the value in place series includes construction-related expenses such as architectural and engineering costs and the costs of materials supplied by owners which are normally not reflected in the Census of Construction.

Data contained in the reports of the census of construction industries may also differ from industry data in "Employment and Earnings Statistics," published by the Bureau of Labor Statistics, and "Statistics of Income," published by the Internal Revenue Service. These differences arise from varying definitions of scope, coverage, timing, classification, and methodology.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

*	Sampling error exceeds 40 percent.
**	Represents the sum of all employees during pay periods including 12th of March, May, August, and November, divided by 4.
-	Represents zero.
†	Represents value of construction work less costs for construction work subcontracted to others. (See Duplication in Value of Construction Work.)
††	Represents dollar value of business done less costs for construction work subcontracted to others, and costs for materials, components, supplies, and fuels. In SIC's 1531 and 6552, land receipts are also subtracted from dollar value of business done. (See Duplication in Value of Construction Work.)
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(S)	Withheld because estimate did not meet publication standards on the basis of either the response rate, associated relative standard error, or a consistency review.
(W)	Greater than zero but less than 1 percent.
(X)	Not applicable.
n.s.k.	Not specified by kind.

Users' Guide for Locating Statistics in This Report by Table Number

Statistics	By State	By Industry	By employment size	By size class of the dollar value of business done	By type, class, ownership, kind of business, and location of construction ¹	By CMSA, PMSA, and MSA ²
Assets and depreciation (gross book value):						
Beginning of year—buildings, machinery and equipment.....	5					
End of year—total.....	3, 5	3	7	8		
End of year—buildings, machinery and equipment.....	5					
Depreciation charges during year—buildings, machinery and equipment.....	5					
Capital expenditures:						
Total capital expenditures.....	3, 5	3	7	8		12
New buildings—machinery and equipment.....	5					
Used buildings—machinery and equipment.....	5					
Communication services, payments for.....	4					
Employees:						
All employees—average number.....	3	3	7	8		12
Construction workers—average number.....	3, 4, 10	3, 10				
Other employees—average number.....	4					
Employer costs for fringe benefits—legally required and voluntary expenditures.....	4					
Establishments:						
Number in business at end of year.....	4					
Number in business during year:						
All.....		1		2		
With payroll.....	3, 4, 6, 10	1, 3, 10	7	2, 8		12
Without payroll.....		1		2		
Hours—construction workers:						
Total.....	3, 4, 10	3, 10	7	8		
Quarterly.....	4, 10	10				
Inventories.....	6					
Materials, components, supplies, and fuels—payments for.....	3, 4	3	7	8		12
Payroll:						
First quarter, all employees.....	4					
Annual:						
All employees.....	3, 4	3	7	8		12
Construction workers.....	3, 4	3				
Other employees.....	4					
Power, fuels, and lubricants—payments for.....	4					
Proprietors and working partners:						
All establishments.....		1		2		
Establishments with payroll.....	4	1		2		
Establishments without payroll.....		1		2		
Ratios, industry.....	11	11				
Receipts:						
Dollar value of business done:						
All establishments.....		1		2		
Establishments with payroll.....	4	1	7	2, 8		
Establishments without payroll.....		1		2		
Value of construction work, total.....	3, 4, 6	3	7	8	4, 9,	12
For work subcontracted in from others.....	4					
Other business receipts.....	4					
Land receipts ³	4					
Net value of construction work.....	3, 4	3	7	8		12
Value added.....	3, 4	3	7	8		12
Rental payments:						
Total.....	3, 4	3	7	8		
For machinery and equipment.....	4					
For buildings.....	4					
Repairs to buildings and other structures.....	4					
Repairs to machinery and equipment.....	4					
Subcontract work to others, payments for.....	3, 4	3	7	8	12	

Note: Data for 1982 and earlier years are also available in some of these tables.

¹Type—buildings, roads, etc. Class—new construction; additions, alterations, or reconstruction; or maintenance and repair work. Ownership—private or government owned.

²CMSA—Consolidated metropolitan statistical area; PMSA—Primary metropolitan statistical area; MSA—Metropolitan Statistical area.

³Land receipts are shown separately for SIC's 1531 and 6552 only.

REGIONS AND CENSUS DIVISIONS OF THE UNITED STATES



* The Midwest Region was designated as the North Central Region until June 1984.

U.S. DEPARTMENT OF COMMERCE
Bureau of the Census

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Iowa

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SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Iowa. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the SIC Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 23,699 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$4.0 billion in total value of business done.

Most of the 23,699 construction establishments were small. Of the total, 18,389 were nonemployers, and over half of the employer establishments had less than 5 employees. The 2,112 construction establishments with 5 employees or more, while representing only 9 percent of all establishments, accounted for more than 74 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$3.4 billion of total dollar value of business done. Of this amount, \$3.3 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$777 million, leaving net value of construction work of \$2.6 billion. In addition, these establishments paid out \$1.3 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$1.5 billion. (See Introduction and appendixes for explanation of terms.)

There were 5,310 establishments with total employment averaging 37,825 during the year. Total payroll for 1987 was \$723 million. Total hours worked by construction workers during the year were 52.7 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 18,389 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$582 million. Most of these establishments, about 80 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

1987
1982

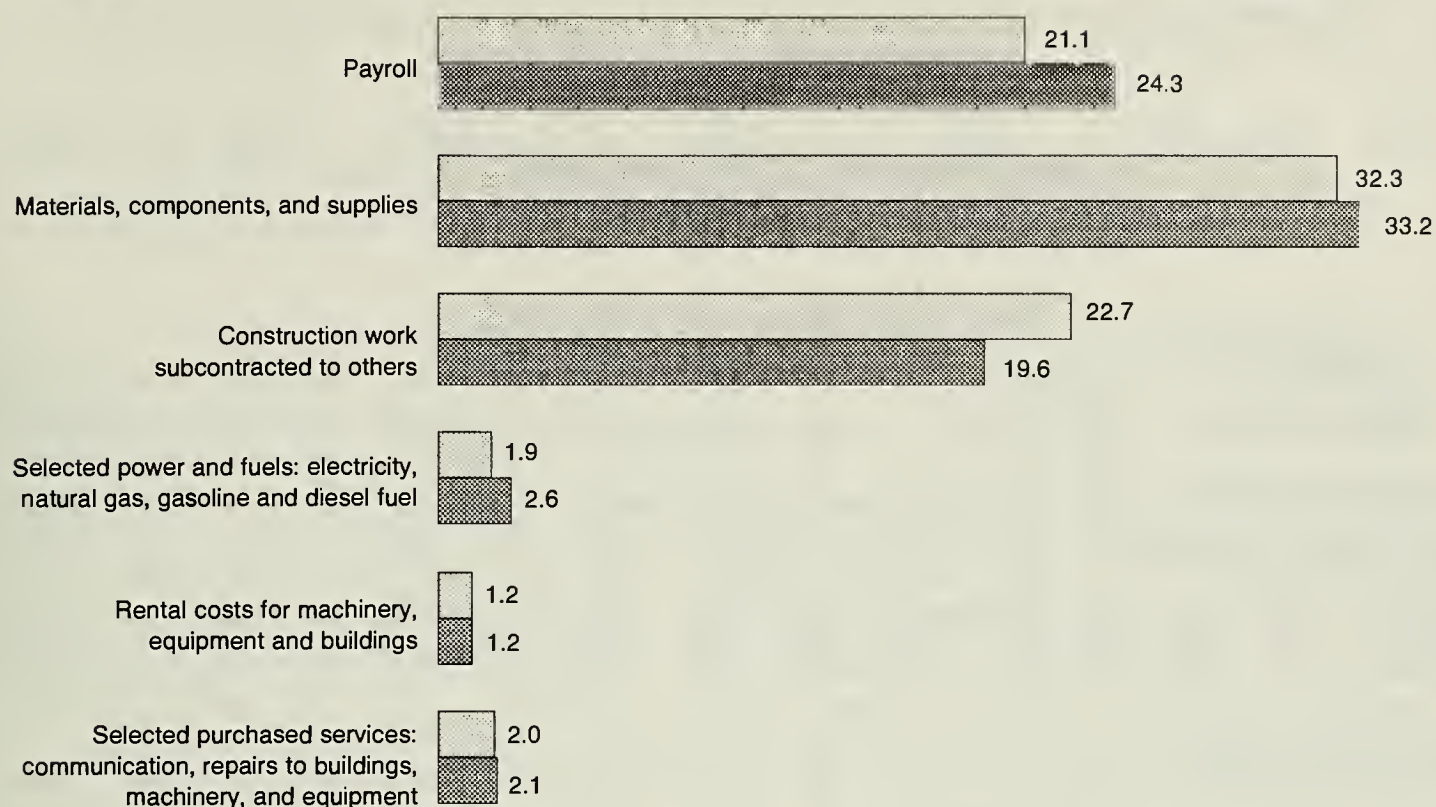


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

1987
1982

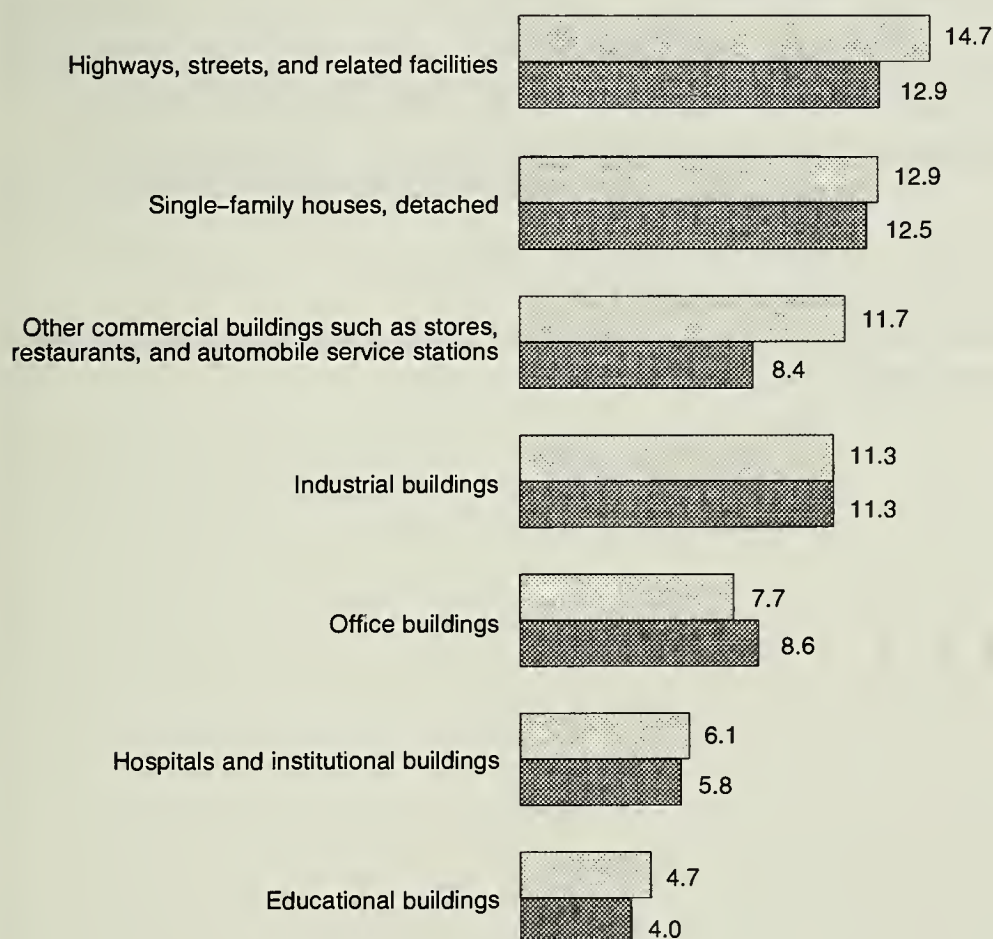


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done	Number	Proprie- tors and working partners	Dollar value of business done	Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
	Construction Industries and land subdividers and developers	23 699	19 889	37 825	4 013 077	18 389	18 195	582 160	5 310	1 694	37 825	3 430 917	1	1
15, 16, 17	Construction Industries	23 446	19 742	(D)	3 976 529	18 176	18 062	551 467	5 270	1 680	(D)	3 425 112	(D)	1
15	Building construction—General contractors and operative builders	4 472	3 386	9 567	1 395 080	3 080	2 919	165 116	1 392	467	9 567	1 229 964	3	3
16	Heavy construction other than building construction— contractors	938	423	7 366	847 225	303	295	19 473	635	128	7 366	827 752	3	2
17	Special trade contractors	18 036	15 933	(D)	1 734 274	14 793	14 848	366 878	3 243	1 085	(D)	1 367 396	(D)	2
1711	Plumbing, heating, and air-conditioning ..	1 997	1 487	5 079	438 100	1 198	1 211	53 859	799	276	5 079	384 241	3	3
1731	Electrical work	1 632	1 278	3 293	242 731	1 151	1 146	33 577	481	132	3 293	209 154	4	3
6552	Land subdividers and developers, n.e.c.²	241	141	(D)	36 490	213	133	30 694	28	8	(D)	*5 796	(D)	65
	1982													
	Construction Industries and land subdividers and developers	21 614	17 971	40 894	3 284 835	15 115	15 102	543 061	6 499	2 869	40 894	2 741 774	2	1
15, 16, 17	Construction Industries	21 379	17 869	40 747	(D)	14 924	15 004	(D)	6 455	2 865	40 747	2 705 010	2	1
15	Building construction—General contractors and operative builders	4 355	3 337	11 146	1 136 402	2 685	2 678	142 853	1 670	659	11 146	993 549	3	2
16	Heavy construction other than building construction— contractors	1 069	652	7 369	(D)	506	507	(D)	563	145	7 369	577 583	2	2
17	Special trade contractors	15 955	13 880	22 232	1 378 474	11 793	11 819	244 596	4 222	2 061	22 232	1 133 378	2	2
1711	Plumbing, heating, and air-conditioning ..	1 787	1 298	4 866	313 283	871	890	31 331	916	408	4 866	281 952	4	3
1731	Electrical work	1 496	1 135	3 157	199 663	934	926	24 349	562	209	3 157	175 314	4	4
6552	Land subdividers and developers, n.e.c.²	229	100	140	(D)	191	98	(D)	38	2	140	36 759	13	3

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see Introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State	23 699	19 889	37 825	4 013 077	18 389	18 195	582 160	5 310	1 694	37 825	3 430 917	1	1
\$10,000,000 or more	41	—	5 237	924 884	—	—	—	41	—	5 237	924 884	(W)	(W)
\$5,000,000 to \$9,999,999	67	(D)	3 744	(D)	1	—	(D)	66	(D)	3 744	462 559	1	2
\$2,500,000 to \$4,999,999	139	9	4 391	942 582	5	4	26 428	134	5	4 391	453 595	2	6
\$1,000,000 to \$2,499,999	351	34	5 962	535 617	18	9	22 674	333	25	5 962	512 943	4	5
\$500,000 to \$999,999	672	147	5 677	463 609	60	41	41 202	612	106	5 677	422 407	6	6
 \$250,000 to \$499,999	1 062	490	4 927	366 116	181	154	60 959	881	336	4 927	305 157	8	7
\$100,000 to \$249,999	2 620	1 642	5 510	406 288	925	912	134 851	1 695	730	5 510	271 437	6	5
\$50,000 to \$99,999	(S)	(S)	(S)	(S)	1 701	1 702	117 415	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	2 393	2 372	85 574	(S)	(S)	(S)	(S)	(S)	(S)
 Less than \$25,000	(S)	(S)	(S)	(S)	13 105	13 001	93 057	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	3 683	3 649	59 989	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	2 639	2 625	19 079	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	2 379	2 356	8 599	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	4 404	4 371	5 390	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State	21 614	17 971	40 894	3 284 835	15 115	15 102	543 061	6 499	2 869	40 894	2 741 774	2	1
\$10,000,000 or more	28	—	5 003	(D)	2	—	(D)	26	—	5 003	(D)	(W)	(D)
\$5,000,000 to \$9,999,999	54	2	3 343	(D)	2	1	(D)	52	1	3 343	(D)	(W)	(D)
\$2,500,000 to \$4,999,999	101	2	3 925	(D)	—	—	—	101	2	3 925	(D)	(W)	(D)
\$1,000,000 to \$2,499,999	325	10	6 138	1 925 151	9	6	159 517	316	4	6 138	1 765 634	3	1
\$500,000 to \$999,999	470	90	4 989	319 333	43	39	28 206	427	51	4 989	291 127	6	6
 \$250,000 to \$499,999	903	278	5 475	315 342	116	101	39 015	787	177	5 475	276 327	6	5
\$100,000 to \$249,999	2 398	1 580	6 484	362 830	583	595	84 662	1 815	985	6 484	278 168	5	5
\$50,000 to \$99,999	2 571	2 047	3 085	181 042	1 277	1 320	88 011	1 294	727	3 085	93 031	6	5
\$25,000 to \$49,999	2 600	2 287	1 303	(D)	1 869	1 891	65 389	731	396	1 303	(D)	8	(D)
 Less than \$25,000	12 162	11 674	1 148	115 746	11 214	11 149	78 261	948	525	1 148	37 485	7	5
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	3 243	3 218	50 526	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	2 492	2 479	16 798	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	2 937	2 924	8 395	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	2 542	2 528	2 542	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction Industries and land subdividers and developers -----	5 310	37 825	30 106	723 405	546 378	52 714	3 341 668	2 564 452
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses-----	736	2 219	1 816	27 076	21 465	3 079	183 432	134 461
1522	Other residential buildings-----	54	472	389	7 838	5 611	605	59 658	33 925
1531	Operative builders -----	76	519	327	8 349	4 320	563	(D)	50 574
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	103	1 565	1 229	30 666	22 493	2 163	149 205	104 890
1542	Nonresidential buildings, n.e.c.-----	423	4 792	3 579	104 748	72 616	6 826	719 968	332 939
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	196	3 798	3 151	87 871	68 296	6 438	475 127	387 957
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	36	1 019	876	21 546	17 655	1 811	112 782	91 063
1623	Water, sewer, and utility lines-----	111	1 040	867	20 624	16 015	1 724	100 392	86 524
1629	Heavy construction, n.e.c.-----	292	1 509	1 148	26 463	19 507	2 051	115 815	93 803
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	799	5 079	3 773	106 412	78 736	6 478	369 059	330 756
1721	Painting and paper hanging -----	253	1 108	950	16 496	13 050	1 243	47 478	46 069
1731	Electrical work -----	481	3 293	2 607	67 197	52 657	4 695	206 954	203 491
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	179	1 203	1 023	20 666	17 050	1 543	54 740	53 380
1742	Plastering, drywall, and insulation work -----	146	1 151	947	23 203	18 550	1 664	68 217	63 254
1743	Terrazzo, tile, marble, and mosaic work-----	*16	237	203	3 881	2 926	279	13 133	12 455
175	Carpentry and floor work:								
1751	Carpentry -----	369	1 049	865	13 500	10 707	1 333	67 038	59 014
1752	Floor laying and other floor work-----	74	191	152	2 605	1 691	136	11 905	11 399
1761	Roofing, siding, and sheet metal work -----	246	2 376	1 883	44 643	32 242	3 222	169 334	158 268
1771	Concrete work -----	261	2 319	1 954	38 015	29 575	3 179	159 876	149 987
1781	Water well drilling -----	41	203	164	3 067	2 506	239	14 441	13 706
179	Miscellaneous special trade contractors:								
1791	Structural steel erection-----	23	369	319	7 238	6 172	422	15 548	15 129
1793	Glass and glazing work -----	25	226	166	4 563	3 707	305	(D)	15 324
1794	Excavation work -----	77	436	363	7 334	5 823	598	30 189	28 445
1795	Wrecking and demolition work -----	*17	(D)	(D)	1 467	1 190	(D)	5 039	4 764
1796	Installing building equipment, n.e.c.-----	72	682	523	15 041	11 642	919	45 644	43 706
1799	Special trade contractors, n.e.c. -----	164	748	647	11 681	9 287	953	39 570	36 302
6552	Land subdividers and developers, n.e.c.-----	28	(D)	(D)	*1 206	879	(D)	3 807	*2 854

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987--Con.						1982			Relative standard error of estimate (percent) for column--			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
1 468 040	1 173 136	777 216	42 038	66 685	672 087	40 894	2 658 633	1 203 575	1	1	4	15, 16, 17
												15
70 525 15 625	67 327 19 423	48 970 25 733	745 356	2 197 *437	23 635 4 413	2 972 583	142 904 66 883	58 204 16 834	9 22	12 17	19 61	152 1521 1522
19 912	31 666	(D)	300	*1 130	(D)	456	51 483	19 359	13	17	66	1531
54 356 187 575	52 153 157 906	44 315 387 029	1 059 3 927	1 998 7 291	17 525 69 643	2 169 4 966	170 109 535 071	53 753 153 354	8 4	7 4	30 9	154 1541 1542
												16
215 036	185 191	87 170	10 224	19 342	187 701	4 022	315 242	153 326	4	3	5	1611
42 378 58 734 64 620	52 563 28 461 35 999	21 718 13 867 22 012	1 247 2 710 2 912	1 983 4 183 3 307	29 785 35 682 65 357	932 1 568 847	77 471 104 349 67 408	41 725 49 494 32 301	4 9 10	3 7 9	5 24 26	162 1622 1623 1629
												17
185 324	160 614	38 302	4 823	5 940	53 188	4 866	275 525	141 380	3	3	13	1711
36 196	(D)	1 409	353	822	6 295	1 269	36 594	26 455	10	8	21	1721
113 136	92 555	3 462	2 310	2 660	28 793	3 157	169 638	98 819	4	3	11	1731
35 000 38 163 5 432	18 612 27 151 7 042	1 360 4 962 678	220 550 101	1 756 700 311	12 549 6 925 1 929	1 010 1 198 66	38 898 53 161 3 939	22 181 35 150 2 350	11 8 8	9 9 12	24 26 31	174 1741 1742 1743
35 049 8 244	25 931 4 037	8 023 505	717 (D)	1 122 *112	11 544 1 505	1 823 257	65 302 12 566	33 366 6 639	9 25	10 23	28 42	175 1751 1752
88 071	71 931	11 065	2 906	3 571	30 040	3 473	204 048	113 778	5	5	18	1761
84 333	68 039	9 888	3 042	3 063	30 516	1 411	54 732	28 384	7	6	15	1771
5 733	(D)	*734	(D)	*538	*11 192	172	8 547	4 861	25	24	41	1781
14 160 8 381 21 169 3 906 28 595 26 120	2 501 7 531 7 556 *944 16 787 11 993	419 (D) 1 743 275 1 937 3 268	505 313 1 107 141 522 820	*130 309 *1 506 (D) 879 *1 107	5 837 2 167 16 399 (D) 5 683 4 765	397 509 1 654 27 513 430	22 388 21 025 75 892 853 40 697 20 007	13 511 12 224 55 180 844 25 365 (D)	13 11 19 (D) 10 16	7 9 14 30 8 16	48 2 47 (D) 23 60	179 1791 1793 1794 1795 1796 1799
*2 257	*684	953	6	(D)	663	140	23 896	(D)	(D)	64	(D)	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	5 310	6 499	8 347	6 380	1	2	3	4
Proprietors and working partners	1 694	2 869	5 269	4 620	6	3	4	5
All employees**	37 825	40 894	55 979	41 581	1	2	1	3
Construction workers:								
March	24 096	25 433	38 154	26 573	2	2	1	3
May	30 578	32 650	48 864	33 548	1	2	1	3
August	34 549	37 925	54 858	43 396	1	2	1	3
November	31 202	33 801	48 664	34 594	1	2	1	3
Average	30 106	33 137	47 677	35 283	1	2	1	3
Other employees:								
March	7 708	7 648	7 906	6 158	2	2	2	4
May	7 627	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
August	7 770	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
November	7 780	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Average	7 721	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	9 684	9 805	(NA)	(NA)	2	2	(NA)	(NA)
April to June	13 611	12 865	(NA)	(NA)	2	2	(NA)	(NA)
July to September	15 652	15 715	(NA)	(NA)	2	2	(NA)	(NA)
October to December	13 767	13 638	(NA)	(NA)	2	2	(NA)	(NA)
Total hours worked	52 714	52 025	(NA)	(NA)	2	1	(NA)	(NA)
Payroll, all employees	723 405	666 558	682 118	365 428	1	1	1	2
Payroll, construction workers	546 378	504 791	547 251	297 545	1	1	1	2
Payroll, other employees	177 027	161 767	134 867	67 883	1	1	1	3
First quarter payroll, all employees	140 514	134 334	130 073	(NA)	1	1	1	(NA)
Employer costs for fringe benefits, all employees	155 406	122 048	105 966	(NA)	1	1	1	(NA)
Legally required expenditures	110 038	88 127	67 343	(NA)	1	2	1	(NA)
Voluntary expenditures	45 368	33 921	38 623	(NA)	2	2	1	(NA)
Dollar value of business done	3 430 917	2 741 774	2 828 733	1 449 105	1	1	1	3
Value of construction work ¹	3 341 668	2 658 633	2 745 982	1 398 021	1	1	1	2
Value of construction work subcontracted in from others	636 933	492 676	531 316	224 506	3	7	(NA)	(NA)
Land receipts ²	12 523	19 635	(NA)	(NA)	18	3	(NA)	(NA)
Other business receipts	76 725	63 505	82 750	51 084	4	4	4	26
Net value of construction†	2 564 452	2 121 572	2 254 428	1 165 083	1	1	1	2
Value added††	1 468 040	1 203 575	1 210 329	669 249	1	1	1	3
Selected costs	1 950 353	1 518 563	1 599 890	769 377	1	1	1	3
Materials, components, and supplies ³	1 107 053	911 196	1 051 369	536 439	1	2	1	3
Construction work subcontracted to others	777 216	537 060	491 554	232 938	2	2	2	5
Selected power, fuels, and lubricants	66 083	70 306	56 967	(NA)	2	2	1	(NA)
Electricity	6 930	7 578	5 037	(NA)	3	3	3	(NA)
Natural gas	3 546	4 860	2 782	(NA)	4	5	4	(NA)
Gasoline and diesel fuel	50 702	53 036	42 297	(NA)	2	2	1	(NA)
On highway use	34 303	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Off highway use	16 398	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	4 904	4 831	6 856	(NA)	4	7	4	(NA)
Rental cost for machinery, equipment, and buildings	42 038	32 790	31 341	(NA)	4	3	2	(NA)
For machinery and equipment	29 502	24 360	26 428	12 521	5	3	3	6
For buildings	12 536	8 429	4 914	(NA)	4	4	3	(NA)
Selected purchased services	67 618	57 989	60 321	(NA)	3	2	2	(NA)
Communication services	13 322	13 185	11 200	(NA)	5	2	2	(NA)
Repairs to buildings and other structures	3 279	3 239	2 822	(NA)	7	5	6	(NA)
Repairs to machinery and equipment	51 016	41 565	46 299	(NA)	4	2	2	(NA)
Ownership of construction projects:								
Value of construction work	3 341 668	2 658 633	2 745 982	1 398 021	1	1	1	2
Government owned	980 078	738 395	637 309	448 555	2	3	1	3
Federal	340 274	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
State and local	639 804	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Privately owned	2 361 590	1 920 237	2 108 674	949 466	2	2	1	3

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. **Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	637 397	778 871	3	2
Capital expenditures, other than land -----	66 685	55 676	4	4
New -----	44 807	35 878	4	3
Used -----	21 877	19 798	7	7
Retirements and disposition of depreciable assets -----	31 995	32 833	10	4
End-of-year gross book value of depreciable assets -----	672 087	801 715	3	2
Depreciation charges during year -----	68 889	85 524	4	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	146 702	130 770	6	3
Capital expenditures, other than land -----	10 341	4 987	8	6
New buildings and other structures -----	6 743	3 090	8	9
Used buildings and other structures -----	3 598	1 897	16	11
Retirements and disposition of depreciable assets -----	4 470	8 503	12	6
End-of-year gross book value of depreciable assets -----	152 574	127 254	6	4
Depreciation charges during year -----	10 639	9 918	5	8
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	490 694	648 101	3	2
Capital expenditures, other than land -----	56 344	50 689	4	3
New machinery and equipment, including automobiles and trucks -----	38 064	32 787	4	3
New automobiles and trucks, intended primarily for highway use -----	17 913	10 953	6	6
Used machinery and equipment, including automobiles and trucks -----	18 279	17 901	8	8
Retirements and disposition of depreciable assets -----	27 525	24 329	11	4
End-of-year gross book value of depreciable assets -----	519 513	674 461	3	2
Depreciation charges during year -----	58 249	75 606	5	3

Table 6. **Value of Inventories for Establishments With Payroll: 1987 and 1986**

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	5 310	1
Value of construction work	3 341 668	1
Establishments with inventories:		
Number	2 502	4
Value of construction work	1 776 168	2
Inventories ¹ :		
End of 1987, materials and supplies	59 575	6
End of 1986, materials and supplies	58 941	6
Establishments with no inventories:		
Number	2 153	5
Value of construction work	1 209 560	4
Establishments not reporting:		
Number	655	10
Value of construction work	355 940	6

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments	5 310	3 196	1 258	508	253	65	26	1	1	—
All employees**	37 825	6 405	7 918	6 533	7 757	4 454	4 755	(D)	(D)	—
Payroll, all employees	723 405	75 566	121 076	122 146	172 578	116 491	115 547	(D)	(D)	—
Construction worker hours (thousands)	52 714	8 134	10 297	8 708	11 390	6 619	7 564	(D)	(D)	—
Dollar value business done	3 430 917	460 737	548 226	467 625	763 090	492 701	698 537	(D)	(D)	—
Value of construction work ¹	3 341 668	450 655	529 662	456 962	733 665	479 115	691 607	(D)	(D)	—
Net value of construction work†	2 564 452	386 862	449 170	396 562	561 809	356 106	413 941	(D)	(D)	—
Value added††	1 468 040	209 758	252 415	242 782	334 304	212 242	216 537	(D)	(D)	—
Cost of materials, components, supplies, and fuels	1 173 136	183 792	211 178	164 064	254 874	359 227	(D)	(D)	(D)	—
Cost of construction work subcontracted to others	777 216	63 793	80 492	60 400	171 856	123 009	277 666	(D)	(D)	—
Rental cost for machinery, equipment, and buildings	42 038	4 837	5 044	7 295	11 390	6 693	6 777	(D)	(D)	—
Capital expenditures, other than land	66 685	10 960	9 499	9 510	15 851	10 377	10 487	(D)	(D)	—
End-of-year gross book value of depreciable assets	672 087	106 143	114 786	95 552	151 127	105 153	99 324	(D)	(D)	—
1982										
All employees**	40 894	8 587	7 523	7 566	7 638	4 055	3 304	2 220	(D)	—
Value of construction work ¹	2 658 633	390 889	366 595	419 998	594 969	347 666	376 561	161 953	(D)	—
Value added††	1 203 575	192 035	182 496	207 748	241 992	149 166	137 294	92 843	(D)	—
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	1	4	6	5	3	1	(W)	(D)	(D)	—
Net value of construction work†	1	4	6	5	2	1	(W)	(D)	(D)	—
Capital expenditures, other than land	4	15	15	11	7	4	(W)	(D)	(D)	—

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments -----	5 310	(S)	(S)	(S)	1 695	881	612	333	134	66	41
All employees** -----	37 825	(S)	(S)	(S)	5 510	4 927	5 677	5 962	4 391	3 744	5 237
Payroll, all employees -----	723 405	(S)	(S)	(S)	65 874	73 486	101 515	122 938	109 072	96 431	135 347
Construction worker hours (thousands) -----	52 714	(S)	(S)	(S)	7 005	6 602	7 363	8 336	6 858	5 538	8 229
Dollar value of business done -----	3 430 917	(S)	(S)	(S)	271 437	305 157	422 407	512 943	453 595	462 559	924 884
Value of construction work ¹ -----	3 341 668	(S)	(S)	(S)	264 102	298 400	409 676	496 325	439 057	448 157	909 078
Net value of construction work† -----	2 564 452	(S)	(S)	(S)	245 870	274 229	358 883	415 292	669 499	(D)	528 386
Value added†† -----	1 468 040	(S)	(S)	(S)	141 319	153 038	207 580	250 308	205 785	190 302	275 606
Cost of materials, components, supplies, and fuels -----	1 173 136	(S)	(S)	(S)	111 534	127 041	161 934	179 357	152 671	411 630	(D)
Cost of construction work subcontracted to others -----	777 216	(S)	(S)	(S)	18 231	24 171	50 793	81 032	217 715	(D)	380 692
Rental cost for machinery, equipment, and buildings -----	42 038	(S)	(S)	(S)	3 777	3 565	4 326	7 654	6 104	6 043	9 317
Capital expenditures, other than land -----	66 685	(S)	(S)	(S)	8 583	7 727	8 510	8 936	5 939	6 279	19 078
End-of-year gross book value of depreciable assets -----	672 087	(S)	(S)	(S)	89 765	74 849	79 712	98 997	84 384	74 704	155 544
1982											
All employees** -----	40 894	1 148	1 303	3 085	6 484	5 475	4 989	6 138	3 925	3 343	5 003
Value of construction work ¹ -----	2 658 633	10 500	26 282	91 895	273 137	267 806	281 354	452 273	337 716	337 872	579 795
Value added†† -----	1 203 575	5 925	14 660	47 294	143 859	141 055	142 189	203 839	161 602	135 100	208 049
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	(S)	(S)	(S)	6	8	6	4	2	1	(W)
Net value of construction work† -----	1	(S)	(S)	(S)	5	7	6	4	4	(D)	(W)
Capital expenditures, other than land -----	4	(S)	(S)	(S)	18	18	13	12	10	2	

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	3 341 668	1 994 555	775 548	479 348	1	2	2	3
Building construction	2 310 517	1 428 375	585 882	294 961	2	2	2	4
Single-family houses	470 344	285 336	92 858	92 149	6	9	7	9
Single-family houses, detached	430 505	257 680	86 770	86 055	6	10	7	9
Single-family houses, attached	39 838	27 656	6 087	6 094	15	19	23	25
Apartment buildings with two or more apartments	84 187	59 285	12 119	12 781	9	11	10	9
Other residential buildings, including hotels and motels	86 919	52 071	25 358	9 489	5	4	13	10
Hotels and motels	55 010	37 240	13 941	3 828	3	3	3	14
Other residential buildings, excluding hotels and motels	31 909	14 830	11 417	5 661	12	11	28	14
Office buildings	258 565	163 606	70 072	24 886	2	2	5	4
Other commercial buildings such as stores, restaurants, and automobile service stations	391 308	238 686	123 600	29 022	3	4	4	7
Industrial buildings and warehouses	496 901	299 314	127 159	70 428	2	2	4	6
Industrial buildings	378 965	211 339	108 817	58 808	2	2	4	7
Warehouses	117 936	87 974	18 342	11 620	5	6	10	11
Religious buildings	32 976	15 262	11 541	6 172	6	10	7	13
Educational buildings	158 111	87 844	52 610	17 656	5	5	11	7
Hospitals and institutional buildings	204 993	143 469	51 194	10 329	3	3	7	10
Farm buildings	82 875	58 537	9 577	14 760	8	10	15	14
Other nonresidential buildings	42 039	24 965	9 794	7 289	13	20	3	10
Land development for buildings	(S)	(NA)	(NA)	(NA)	(S)	(NA)	(NA)	(NA)
Nonbuilding construction	940 232	566 179	189 665	184 387	2	2	4	6
Highways, streets, and related facilities	492 295	260 505	125 015	106 774	2	3	4	6
Parking areas including private driveways	43 345	30 097	3 712	9 534	10	5	21	40
Bridges, tunnels, and elevated highways	103 188	76 731	19 891	6 564	3	4	2	2
Conservation and development construction	37 083	24 872	4 449	*7 762	18	19	38	42
Power and communication transmission lines, towers, and related facilities	16 169	12 868	2 004	1 296	24	22	33	40
Sewers, water mains, and related facilities	98 008	78 147	9 986	9 874	8	8	22	23
Sewers, sewer lines, and related facilities	56 157	45 076	7 004	4 076	10	11	18	19
Water mains and related facilities	41 851	33 071	2 981	5 798	10	10	33	35
Heavy industrial facilities	13 254	3 428	5 095	4 729	13	20	26	10
Sewage treatment and water treatment plants	43 657	28 820	13 615	1 221	8	10	14	27
Sewage treatment plants	35 702	23 327	11 437	937	7	6	16	28
Water treatment plants	7 954	5 492	2 177	284	25	34	25	31
Earthmoving, nonbuilding	18 461	15 460	1 786	1 214	16	16	25	23
Other nonbuilding construction	74 772	35 251	4 112	35 419	22	16	25	37
Construction work, n.s.k.	90 918	(NA)	(NA)	(NA)	9	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	2 658 633	2 021 487	(NA)	637 145	1	1	(NA)	2
Building construction	1 818 308	1 394 866	(NA)	423 441	1	1	(NA)	2
Single-family houses	358 604	242 099	(NA)	116 504	4	4	(NA)	4
Single-family houses, detached	331 004	222 693	(NA)	108 311	4	4	(NA)	4
Single-family houses, attached	27 599	19 406	(NA)	8 193	10	14	(NA)	9
Apartment buildings with two or more apartments	87 022	72 342	(NA)	14 680	5	6	(NA)	5
Other residential buildings, including hotels and motels	52 700	46 186	(NA)	6 513	2	2	(NA)	5
Hotels and motels	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Other residential buildings, excluding hotels and motels	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Office buildings	227 572	172 679	(NA)	54 893	2	2	(NA)	3
Other commercial buildings such as stores, restaurants, and automobile service stations	223 837	164 357	(NA)	59 480	2	3	(NA)	2
Industrial buildings and warehouses	410 832	319 343	(NA)	91 489	2	2	(NA)	3
Industrial buildings	299 563	223 149	(NA)	76 413	2	2	(NA)	4
Warehouses	111 269	96 193	(NA)	15 076	6	7	(NA)	9
Religious buildings	33 679	26 060	(NA)	7 619	9	12	(NA)	7
Educational buildings	107 225	80 619	(NA)	26 606	4	4	(NA)	8
Hospitals and institutional buildings	153 552	134 480	(NA)	19 071	3	2	(NA)	5
Farm buildings	138 503	118 017	(NA)	20 486	6	7	(NA)	7
Amusement, social, and recreational buildings	14 246	12 872	(NA)	1 374	7	8	(NA)	7
Other nonresidential buildings	10 536	5 812	(NA)	4 726	13	13	(NA)	20
Nonbuilding construction	648 402	470 531	(NA)	177 870	2	2	(NA)	4
Highways, streets, and related facilities	343 313	229 752	(NA)	113 561	3	2	(NA)	6
Bridges, tunnels, and elevated highways	84 065	65 690	(NA)	18 374	2	3	(NA)	1
Conservation and development construction	32 504	27 312	(NA)	5 192	14	16	(NA)	19
Power and communication transmission lines, towers, and related facilities	22 972	19 659	(NA)	3 313	11	10	(NA)	25
Sewers, water mains, and related facilities	90 050	73 398	(NA)	16 652	4	4	(NA)	4
Sewers, sewer lines, and related facilities	43 142	34 356	(NA)	8 785	7	8	(NA)	5
Water mains and related facilities	46 908	39 041	(NA)	7 866	5	5	(NA)	6
Heavy industrial facilities	12 555	7 899	(NA)	4 655	14	18	(NA)	12
Blast furnaces, petroleum refineries, and chemical complexes	1 548	549	(NA)	999	29	15	(NA)	32
Power plants	11 006	7 350	(NA)	3 656	13	19	(NA)	12
Power plants, nuclear	423	263	(NA)	159	7	12	(NA)	(W)
Power plants, except nuclear	10 582	7 086	(NA)	3 496	13	20	(NA)	13
Sewage treatment and water treatment plants	24 878	21 921	(NA)	2 957	10	10	(NA)	26
Sewage treatment plants	15 384	13 025	(NA)	2 359	11	11	(NA)	30
Water treatment plants	9 494	8 896	(NA)	598	18	19	(NA)	29
Other nonbuilding construction	38 065	24 900	(NA)	13 166	18	24	(NA)	15
Construction work, n.s.k.	191 922	156 088	(NA)	35 833	5	5	(NA)	7

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	5 310	30 106	52 714	24 096	9 684	30 578	13 611
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	736	1 816	3 079	1 691	663	1 856	791
1522	Other residential buildings -----	54	389	605	322	120	369	*143
1531	Operative builders -----	76	327	563	270	111	322	140
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	103	1 229	2 163	973	399	1 183	564
1542	Nonresidential buildings, n.e.c. -----	423	3 579	6 826	2 838	1 363	3 372	1 629
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	196	3 151	6 438	1 547	629	3 687	1 800
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	36	876	1 811	670	267	934	553
1623	Water, sewer, and utility lines -----	111	867	1 724	638	255	927	467
1629	Heavy construction, n.e.c. -----	292	1 148	2 051	919	351	1 217	531
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	799	3 773	6 478	3 513	1 478	3 700	1 546
1721	Painting and paper hanging -----	253	950	1 243	770	208	1 080	358
1731	Electrical work -----	481	2 607	4 695	2 552	1 103	2 477	1 157
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	179	1 023	1 543	672	238	914	398
1742	Plastering, drywall, and insulation work --	146	947	1 664	820	337	915	404
1743	Terrazzo, tile, marble, and mosaic work --	*16	203	279	140	61	160	61
175	Carpentry and floor work:							
1751	Carpentry -----	369	865	1 333	765	298	835	349
1752	Floor laying and other floor work -----	74	152	136	136	32	151	34
1761	Roofing, siding, and sheet metal work -----	246	1 883	3 222	1 617	623	1 863	781
1771	Concrete work -----	261	1 954	3 179	1 166	430	2 173	907
1781	Water well drilling -----	41	164	239	153	51	172	63
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	23	319	422	303	94	309	96
1793	Glass and glazing work -----	25	166	305	159	75	154	72
1794	Excavation work -----	77	363	598	275	81	399	164
1795	Wrecking and demolition work -----	*17	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	72	523	919	513	203	505	240
1799	Special trade contractors, n.e.c. -----	164	647	953	546	173	700	264
6552	Land subdividers and developers, n.e.c. --	28	(D)	(D)	(D)	(D)	(D)	(D)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
34 549	15 652	31 202	13 767	2	2	2	2	1	2	1	2	1	2	15, 16, 17
														15
1 958 459	859 163	1 757 407	765 *176	9 24	12 39	11 19	15 34	10 25	12 41	9 23	12 36	10 28	12 43	152 1521 1522
358	157	360	154	18	27	19	32	18	27	19	26	19	26	1531
														154
1 407 4 097	639 1 920	1 355 4 009	560 1 913	9 4	11 5	7 5	8 6	11 5	14 6	10 5	14 6	9 4	12 5	1541 1542
														16
4 477	2 565	2 894	1 442	4	5	9	13	4	5	4	5	5	6	1611
														162 1622
1 037 1 042 1 208	489 538 567	865 862 1 250	501 462 600	4 9 10	3 11 13	5 10 10	3 12 13	4 10 11	4 12 13	4 9 10	4 12 13	4 8 11	2 11 14	1623 1629
														17
3 980	1 702	3 901	1 751	3	4	4	4	3	4	3	4	3	4	1711
1 105	404	846	271	9	14	11	20	10	14	9	15	9	11	1721
2 719	1 197	2 683	1 236	4	4	4	5	4	5	4	5	4	5	1731
														174
1 174 1 045 243	435 465 83	1 340 1 008 270	471 456 73	11 9 5	14 11 14	12 9 7	17 12 9	10 10 6	16 13 11	13 9 4	17 13 17	14 8 5	16 10 22	1741 1742 1743
965 173	370 37	894 147	314 32	9 25	11 16	9 22	11 16	10 26	12 16	10 26	13 15	10 25	12 17	175 1751 1752
2 087	958	1 966	859	5	7	6	8	7	9	6	8	5	7	1761
2 427	1 029	2 051	811	7	9	8	12	9	11	8	10	7	9	1771
169	62	161	61	24	32	24	37	24	30	24	31	23	31	1781
														179
354 168 378 (D) 587 718	123 73 176 (D) 256 286	311 183 402 *110 487 628	107 83 175 17 (D) 219 228	13 11 19 (D) 10 16	11 11 22 (D) 14 21	14 10 24 (D) 9 16	10 10 20 (D) 12 20	14 11 18 (D) 9 17	11 11 23 (D) 15 21	11 12 16 (D) 12 18	12 12 22 (D) 18 22	12 11 20 (D) 9 16	12 11 23 48 11 23	1791 1793 1794 1795 1796 1799
(D)	(D)	*45	*17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	67	66	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers-----	7.1	19.1	1 751.0	111.0	.216	.351	.233	.013
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses-----	3.0	12.2	1 695.5	101.0	.148	.367	.267	.004
1522	Other residential buildings-----	8.7	16.6	1 555.3	153.4	.131	.326	.431	.006
1531	Operative builders-----	6.8	16.1	1 721.7	(D)	(D)	(D)	(D)	(D)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses-----	15.2	19.6	1 760.0	121.4	.206	.350	.297	.007
1542	Nonresidential buildings, n.e.c.-----	11.3	21.9	1 907.2	201.2	.145	.219	.538	.005
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction-----	19.4	23.1	2 043.2	150.8	.185	.390	.183	.022
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction-----	28.3	21.1	2 067.4	128.7	.191	.466	.193	.011
1623	Water, sewer, and utility lines-----	9.4	19.8	1 988.5	115.8	.205	.283	.138	.027
1629	Heavy construction, n.e.c.-----	5.2	17.5	1 786.6	100.9	.228	.311	.190	.025
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning-----	6.4	21.0	1 716.9	97.8	.288	.435	.104	.013
1721	Painting and paper hanging-----	4.4	14.9	1 308.4	50.0	.347	(D)	.030	.007
1731	Electrical work-----	6.8	20.4	1 800.9	79.4	.325	.447	.017	.011
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework-----	6.7	17.2	1 508.3	53.5	.378	.340	.025	.004
1742	Plastering, drywall, and insulation work-----	7.9	20.2	1 757.1	72.0	.340	.398	.073	.008
1743	Terrazzo, tile, marble, and mosaic work-----	*14.8	16.4	1 374.4	64.7	.296	.536	.052	.008
175	Carpentry and floor work:								
1751	Carpentry-----	2.8	12.9	1 541.0	77.5	.201	.387	.120	.011
1752	Floor laying and other floor work-----	2.6	13.6	894.7	78.3	.219	.339	.042	(D)
1761	Roofing, siding, and sheet metal work-----	9.7	18.8	1 711.1	89.9	.264	.425	.065	.017
1771	Concrete work-----	8.9	16.4	1 626.9	81.8	.238	.426	.062	.019
1781	Water well drilling-----	5.0	15.1	1 457.3	88.1	.212	(D)	.051	(D)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection-----	16.0	19.6	1 322.9	48.7	.466	.161	.027	.032
1793	Glass and glazing work-----	9.0	20.2	1 837.3	(D)	.287	.473	(D)	.020
1794	Excavation work-----	5.7	16.8	1 647.4	83.2	.243	.250	.058	.037
1795	Wrecking and demolition work-----	(D)	(D)	(D)	(D)	.291	.187	.055	.028
1796	Installing building equipment, n.e.c.-----	9.5	22.1	1 757.2	87.3	.330	.368	.042	.011
1799	Special trade contractors, n.e.c.-----	4.6	15.6	1 473.0	61.2	.295	.303	.083	.021
6552	Land subdividers and developers, n.e.c.-----	(D)	(D)	(D)	(D)	.317	.180	.250	.002

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	OMAHA, NE-IA MSA											
	Construction industries and land subdividers and developers -----	1 595	12 331	255 033	1 107 181	837 290	473 362	383 820	269 891	17 685	2	2
15,16, 17	Construction industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	253	948	13 086	(D)	(D)	25 386	(D)	24 062	1 162	13	(D)
1522	Other residential buildings -----	7	68	1 378	12 392	5 710	2 590	(D)	6 682	148	(W)	(W)
1531	Operative builders -----	66	173	5 529	96 989	46 913	23 291	25 880	50 076	(D)	22	20
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	9	199	5 141	33 160	17 459	8 204	(D)	15 701	323	12	14
1542	Nonresidential buildings, n.e.c. ----	78	1 599	36 398	249 661	136 259	68 607	70 205	113 402	1 744	4	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction ----	32	580	14 419	65 262	56 613	31 358	25 846	8 649	4 085	7	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	5	53	(D)	4 974	(D)	1 494	(D)	(D)	-	(W)	(D)
1623	Water, sewer, and utility lines -----	24	291	6 489	16 395	15 088	9 774	5 401	1 307	826	7	8
1629	Heavy construction, n.e.c. -----	29	279	5 987	25 150	22 290	16 224	7 149	2 860	719	21	12
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning -----	183	1 660	41 240	141 474	125 993	69 842	56 897	15 480	2 659	5	4
1721	Painting and paper hanging -----	127	579	9 364	24 229	22 383	16 544	5 901	1 846	349	7	6
1731	Electrical work -----	158	1 530	37 222	99 976	92 813	55 602	38 253	7 163	1 177	3	3
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework -----	92	424	5 718	15 966	15 015	10 659	4 508	951	340	14	17
1742	Plastering, drywall, and insulation work -----	65	703	13 814	50 436	45 214	25 471	22 962	5 222	354	5	6
1743	Terrazzo, tile, marble, and mosaic work -----	7	53	1 308	2 929	(D)	1 715	1 263	(D)	(D)	10	(D)
175	Carpentry and floor work:											
1751	Carpentry -----	122	521	6 827	26 755	24 028	10 887	14 707	2 727	318	13	18
1752	Floor laying and other floorwork ----	33	143	2 685	11 404	10 405	5 467	5 123	999	(D)	22	14
1761	Roofing, siding, and sheet metal work -----	54	675	13 367	44 961	42 499	23 332	(D)	2 462	440	11	9
1771	Concrete work -----	78	489	7 291	32 165	28 930	16 960	12 062	3 235	336	12	11
1781	Water well drilling -----	5	59	1 418	(D)	(D)	1 796	2 516	(D)	(D)	(W)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	*16	117	2 890	5 117	4 993	3 837	(D)	*125	(D)	20	18
1793	Glass and glazing work -----	18	134	2 774	10 421	10 308	5 348	5 726	113	31	16	21
1794	Excavation work -----	23	179	3 346	12 431	11 699	10 021	1 707	732	*952	24	11
1795	Wrecking and demolition work -----	5	68	(D)	(D)	(D)	(D)	222	(D)	(D)	(W)	(D)
1796	Installing building equipment, n.e.c. -	15	245	7 156	14 729	14 245	10 618	(D)	484	59	6	6
1799	Special trade contractors, n.e.c. ----	81	490	5 938	19 490	17 651	13 263	6 869	1 839	*483	18	17
6552	Land subdividers and developers, n.e.c. -----	*9	*73	*1 560	*3 675	*2 491	(D)	(D)	*1 184	(S)	56	54

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Kansas

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SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Kansas. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the SIC Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 22,547 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$5.2 billion in total value of business done.

Most of the 22,547 construction establishments were small. Of the total, 16,940 were nonemployers, and over half of the employer establishments had less than 5 employees. The 2,405 construction establishments with 5 employees or more, while representing only 11 percent of all establishments, accounted for more than 75 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$4.5 billion of total dollar value of business done. Of this amount, \$4.3 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$1.1 billion, leaving net value of construction work of \$3.2 billion. In addition, these establishments paid out \$1.6 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$2.0 billion. (See Introduction and appendixes for explanation of terms.)

There were 5,607 establishments with total employment averaging 46,042 during the year. Total payroll for 1987 was \$952 million. Total hours worked by construction workers during the year were 63.2 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 16,940 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$717 million. Most of these establishments, about 78 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

1987
1982

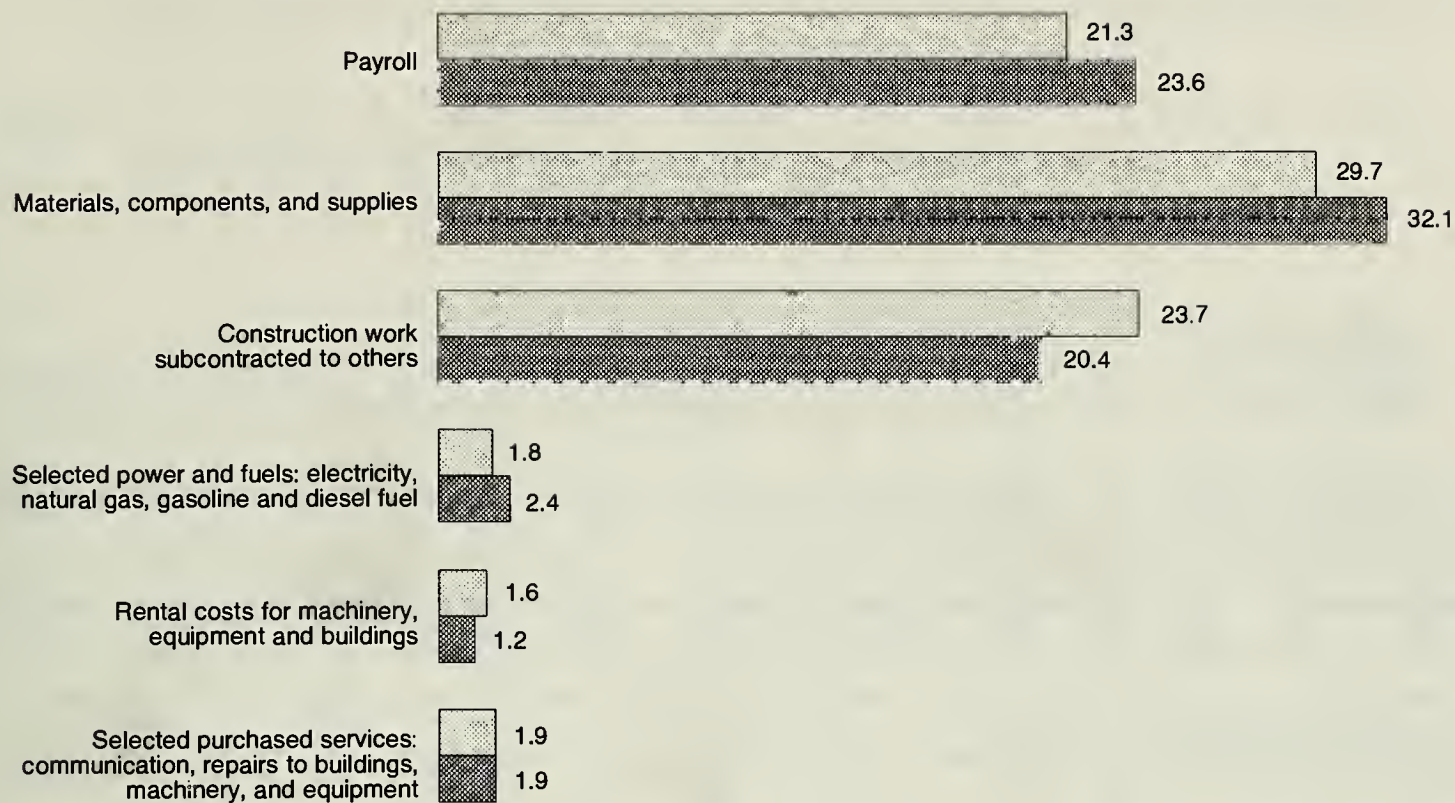


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

1987
1982

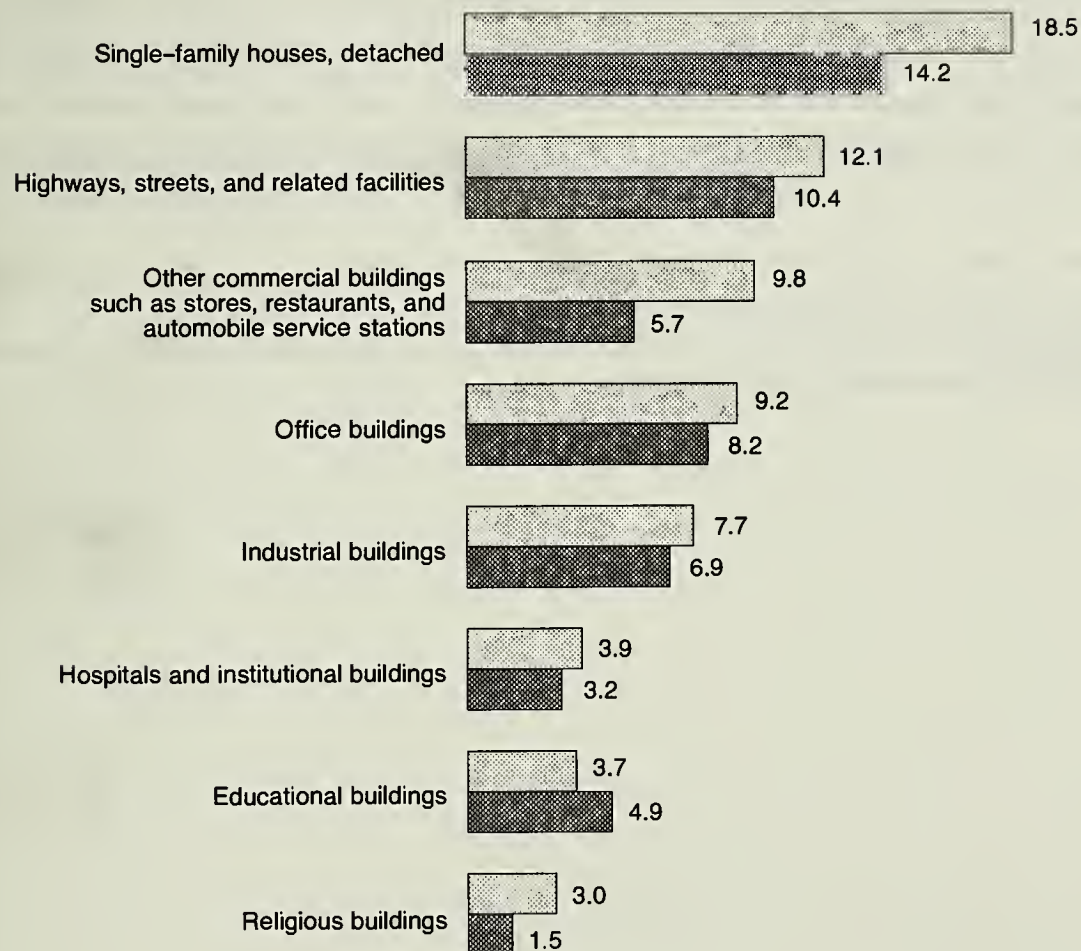


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
			Proprie- tors and working partners	All em- ployees**	Dollar value of business done		Proprie- tors and working partners	Dollar value of business done		Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
	Construction Industries and land subdividers and developers	22 547	18 842	46 042	5 192 132	16 940	16 843	716 924	5 607	1 999	46 042	4 475 208	1	2
15, 16, 17	Construction Industries	22 161	18 482	45 971	5 021 227	16 584	16 499	605 917	5 577	1 983	45 971	4 415 310	1	1
15	Building construction—General contractors and operative builders	4 678	3 464	10 652	1 934 239	3 108	2 947	241 799	1 570	517	10 652	1 692 440	2	3
16	Heavy construction other than building construction— contractors	863	486	9 493	1 079 379	318	310	17 224	545	176	9 493	1 062 155	2	1
17	Special trade contractors	16 620	14 532	25 826	2 007 609	13 158	13 242	346 894	3 462	1 290	25 826	1 660 715	1	1
1711	Plumbing, heating, and air-conditioning ..	2 106	1 525	5 811	461 149	1 259	1 277	48 796	847	248	5 811	412 353	3	3
1731	Electrical work	1 258	954	4 527	335 714	833	828	21 700	425	126	4 527	314 014	3	2
6552	Land subdividers and developers, n.e.c.²	377	354	61	170 897	356	344	111 007	21	10	*61	*59 890	41	71
	1982													
	Construction Industries and land subdividers and developers	19 433	16 412	42 414	3 396 677	13 980	13 980	443 848	5 453	2 432	42 414	2 952 829	1	1
15, 16, 17	Construction Industries	19 179	16 252	42 213	3 358 709	13 762	13 822	415 941	5 417	2 430	42 213	2 942 768	1	1
15	Building construction—General contractors and operative builders	3 260	2 216	10 165	1 142 732	1 800	1 726	125 009	1 460	490	10 165	1 017 723	3	2
16	Heavy construction other than building construction— contractors	874	573	9 309	760 937	392	395	15 434	482	178	9 309	745 503	2	1
17	Special trade contractors	15 045	13 463	22 739	1 455 040	11 570	11 701	275 498	3 475	1 762	22 739	1 179 542	2	2
1711	Plumbing, heating, and air-conditioning ..	1 823	1 457	5 771	372 747	1 014	1 028	36 976	809	429	5 771	335 771	5	3
1731	Electrical work	1 145	878	2 819	189 779	720	721	21 598	425	157	2 819	168 181	5	4
6552	Land subdividers and developers, n.e.c.²	248	158	195	37 964	218	158	27 907	30	—	195	10 057	10	10

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State	22 547	18 842	46 042	5 192 132	16 940	16 843	716 924	5 607	1 999	48 042	4 475 208	1	2
\$10,000,000 or more	58	3	6 633	(D)	2	3	(D)	56	—	6 633	1 287 307	(W)	(W)
\$5,000,000 to \$9,999,999	105	11	6 073	(D)	1	1	(D)	104	(S)	6 073	737 296	1	6
\$2,500,000 to \$4,999,999	184	26	5 920	2 705 441	7	6	56 969	177	*20	5 920	623 869	2	5
\$1,000,000 to \$2,499,999	552	104	7 885	863 852	47	43	68 444	505	61	7 885	795 408	3	6
\$500,000 to \$999,999	653	176	5 172	456 235	116	100	80 879	537	76	5 172	375 356	5	6
 \$250,000 to \$499,999	1 207	582	5 824	416 718	276	263	94 647	931	319	5 824	322 071	7	6
\$100,000 to \$249,999	2 504	1 590	5 463	387 767	957	939	141 720	1 547	651	5 463	246 047	6	5
\$50,000 to \$99,999	(S)	(S)	(S)	(S)	1 558	1 564	109 389	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	2 195	2 185	78 082	(S)	(S)	(S)	(S)	(S)	(S)
 Less than \$25,000	(S)	(S)	(S)	(S)	11 781	11 739	86 793	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	3 497	3 490	57 347	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	2 435	2 423	17 527	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	2 012	2 013	7 315	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	3 837	3 813	4 604	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State	19 433	16 412	42 414	3 396 677	13 980	13 980	443 848	5 453	2 432	42 414	2 952 829	1	1
\$10,000,000 or more	35	—	7 695	(D)	—	—	—	35	—	7 695	(D)	(W)	(D)
\$5,000,000 to \$9,999,999	48	—	3 238	(D)	2	—	(D)	46	—	3 238	1 166 674	(W)	(W)
\$2,500,000 to \$4,999,999	113	6	4 817	1 577 792	4	3	12 569	109	3	4 817	382 633	(W)	(W)
\$1,000,000 to \$2,499,999	329	36	6 584	520 943	14	14	19 556	315	*22	6 584	501 387	2	4
\$500,000 to \$999,999	504	105	5 320	355 596	48	38	35 080	456	67	5 320	320 516	5	5
 \$250,000 to \$499,999	922	459	4 858	311 070	156	142	50 948	766	317	4 858	260 122	7	5
\$100,000 to \$249,999	1 973	1 360	5 658	305 578	603	621	89 999	1 370	739	5 658	215 579	8	5
\$50,000 to \$99,999	2 234	1 812	2 445	157 601	1 177	1 193	80 920	1 057	619	2 445	76 681	7	6
\$25,000 to \$49,999	2 483	2 241	975	87 400	1 903	1 948	66 433	580	293	975	20 967	9	8
 Less than \$25,000	10 791	10 392	823	80 695	10 073	10 021	72 427	718	371	823	8 268	7	8
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	3 010	3 003	47 298	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	2 296	2 283	15 530	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	2 612	2 597	7 444	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	2 155	2 138	2 155	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
		A	B	C	D	E	F	G	H
	Construction Industries and land subdividers and developers -----	5 607	46 042	36 830	951 720	701 313	63 210	4 291 125	3 230 058
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	782	3 038	2 336	44 548	30 745	3 697	279 739	206 251
1522	Other residential buildings -----	49	460	389	8 557	6 071	685	86 522	30 418
1531	Operative builders -----	198	(D)	(D)	(D)	(D)	623	214 204	111 755
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	88	1 248	908	25 997	16 288	1 819	163 750	101 978
1542	Nonresidential buildings, n.e.c. -----	453	5 236	4 015	116 206	79 011	6 760	861 120	409 635
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	110	4 497	3 746	114 801	88 311	7 431	603 805	470 731
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	47	1 040	902	24 400	19 939	1 539	103 921	81 732
1623	Water, sewer, and utility lines -----	193	1 904	1 542	37 877	28 904	2 850	156 902	140 438
1629	Heavy construction, n.e.c. -----	195	2 052	1 708	42 629	32 075	3 367	156 988	138 238
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	847	5 811	4 361	122 829	89 576	7 711	402 292	373 646
1721	Painting and paper hanging -----	276	1 259	1 109	19 270	16 115	1 727	52 826	51 043
1731	Electrical work -----	425	4 527	3 495	109 554	82 228	6 568	309 805	300 522
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	223	1 255	1 107	21 643	18 788	1 587	57 336	53 880
1742	Plastering, drywall, and insulation work -----	187	1 759	1 526	36 331	29 479	2 269	109 759	99 459
1743	Terrazzo, tile, marble, and mosaic work -----	16	86	69	1 428	1 134	127	6 656	6 541
175	Carpentry and floor work:								
1751	Carpentry -----	341	1 430	1 238	20 018	16 314	1 702	64 190	57 121
1752	Floor laying and other floor work -----	70	301	236	6 312	4 146	265	27 174	23 909
1761	Roofing, siding, and sheet metal work -----	281	2 396	1 911	42 552	29 083	2 811	141 281	134 314
1771	Concrete work -----	298	2 386	2 038	45 928	32 690	3 292	174 651	161 974
1781	Water well drilling -----	*18	121	93	2 518	1 911	212	9 573	(D)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	21	500	422	13 855	11 153	605	31 665	28 182
1793	Glass and glazing work -----	52	463	343	8 755	6 183	592	29 613	29 257
1794	Excavation work -----	134	987	792	18 829	14 732	1 242	76 807	68 286
1795	Wrecking and demolition work -----	4	(D)	(D)	(D)	(D)	(D)	9 653	(D)
1796	Installing building equipment, n.e.c. -----	45	1 183	1 024	30 014	24 370	2 025	68 578	61 646
1799	Special trade contractors, n.e.c. -----	224	1 270	996	16 666	12 580	1 450	51 521	48 281
6552	Land subdividers and developers, n.e.c. -----	21	*61	(S)	*1 390	*675	(S)	40 787	*22 582

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
1 958 207	1 411 227	1 061 067	69 519	88 764	845 598	42 414	2 870 903	1 315 858	1	1	3	15, 16, 17
												15
109 974 13 296	98 781 17 467	73 488 56 104	2 737 181	4 123 1 000	30 012 3 739	3 102 426	171 798 61 799	71 586 6 907	7 13	9 11	23 35	152 1521 1522
48 985	70 291	(D)	439	*3 153	*27 338	868	104 176	21 650	(D)	18	43	1531
48 113 244 720	55 920 213 833	61 772 451 484	1 473 7 254	1 010 5 619	16 507 57 418	1 281 4 488	110 314 548 304	47 044 141 670	9 4	12 4	10 11	154 1541 1542
												16
284 318	222 490	133 074	16 031	25 198	272 012	2 925	278 214	162 938	3	1	5	1611
46 431 82 979 90 111	36 598 58 369 50 380	22 189 16 464 18 749	1 718 6 468 6 769	3 095 7 243 8 539	36 299 58 811 78 873	955 2 301 3 128	68 047 151 009 225 788	34 853 77 523 93 010	8 7 6	4 5 6	2 14 10	162 1622 1623 1629
												17
230 056	153 650	28 645	5 743	7 768	58 648	5 771	324 715	165 659	3	3	13	1711
38 052	13 835	1 782	507	1 767	11 672	942	31 224	23 243	10	7	27	1721
189 133	115 599	9 282	3 877	5 363	47 824	2 819	162 332	96 150	3	3	12	1731
39 077 63 993 (D)	14 853 37 753 (D)	3 456 10 300 *115	298 732 46	1 552 927 (D)	7 191 9 671 863	1 008 2 356 *47	28 754 124 079 *2 110	18 833 77 062 *1 053	9 8 13	8 6 12	31 24 (D)	174 1741 1742 1743
37 731 11 141	21 747 13 673	7 068 *3 265	410 240	1 125 *223	6 840 1 027	894 410	31 107 27 442	16 503 13 472	9 17	8 19	29 50	175 1751 1752
79 963	59 805	6 967	2 069	2 052	20 762	1 685	81 088	45 911	4	4	14	1761
101 367	61 444	12 677	4 678	4 729	31 872	2 378	89 308	47 269	6	4	11	1771
5 170	4 567	(D)	34	(D)	(D)	391	23 903	14 665	12	(D)	(D)	1781
24 090 17 435 53 004 (D) (D) 45 326 32 822	(D) 14 742 15 504 (D) (D) 19 292	3 483 356 8 520 (D) *6 931 3 239	1 146 529 4 139 (D) 646 901	802 173 1 267 (D) *91 1 201 600	6 826 3 454 26 342 768 5 257 9 075	465 303 1 897 (D) 373 (D)	23 276 15 329 108 273 (D) 27 516 (D)	14 787 10 300 68 500 (D) 15 936 (D)	(W) 6 10 (D) 5 12	(W) 8 8 (D) 6 13	16 38 12 58 10 28	179 1791 1793 1794 1795 1796 1799
*9 925	(S)	*18 205	(D)	(D)	(S)	195	5 870	3 357	41	74	(D)	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	5 607	5 453	6 307	4 682	1	3	3	4
Proprietors and working partners	1 999	2 432	4 269	3 271	5	4	5	5
All employees**	46 042	42 414	52 582	38 283	1	1	1	2
Construction workers:								
March	32 701	31 704	42 044	28 960	1	2	1	3
May	37 539	35 206	47 241	32 861	1	2	2	2
August	40 579	37 019	49 075	35 563	1	2	2	2
November	36 502	33 847	42 913	30 157	1	2	1	2
Average	36 830	35 015	45 352	32 382	1	2	1	2
Other employees:								
March	9 047	7 349	6 794	5 817	2	2	2	3
May	9 066	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
August	9 379	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
November	9 357	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Average	9 212	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	13 123	12 413	(NA)	(NA)	1	2	(NA)	(NA)
April to June	16 054	14 487	(NA)	(NA)	1	2	(NA)	(NA)
July to September	17 909	15 496	(NA)	(NA)	1	2	(NA)	(NA)
October to December	16 122	13 984	(NA)	(NA)	1	2	(NA)	(NA)
Total hours worked	63 210	56 382	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	951 720	695 505	627 580	336 787	1	1	1	2
Payroll, construction workers	701 313	536 063	509 515	270 154	1	1	1	2
Payroll, other employees	250 406	159 442	118 065	66 633	1	1	1	2
First quarter payroll, all employees	203 837	150 140	133 945	(NA)	1	1	1	(NA)
Employer costs for fringe benefits, all employees	196 804	119 961	103 362	(NA)	1	1	1	(NA)
Legally required expenditures	132 870	92 139	64 015	(NA)	1	1	1	(NA)
Voluntary expenditures	63 933	27 822	39 347	(NA)	1	2	1	(NA)
Dollar value of business done	4 475 208	2 952 829	2 437 942	1 394 647	2	1	1	3
Value of construction work ¹	4 291 125	2 870 903	2 349 977	1 350 067	1	1	1	3
Value of construction work subcontracted in from others	957 331	607 457	483 395	244 941	3	2	2	3
Land receipts ²	44 705	15 140	(NA)	(NA)	30	9	(NA)	(NA)
Other business receipts	139 376	66 785	87 965	44 580	3	4	2	7
Net value of construction†	3 230 058	2 267 709	1 893 902	1 002 738	1	1	1	2
Value added††	1 958 207	1 315 858	1 091 896	589 972	1	1	1	2
Selected costs	2 472 294	1 621 830	1 326 936	788 761	2	1	1	4
Materials, components, and supplies ³	1 329 440	947 260	823 817	441 432	2	1	1	2
Construction work subcontracted to others	1 061 067	603 194	456 075	347 329	3	2	2	8
Selected power, fuels, and lubricants	81 787	71 375	47 045	(NA)	1	2	1	(NA)
Electricity	9 691	7 429	4 962	(NA)	4	3	2	(NA)
Natural gas	6 427	4 958	3 723	(NA)	3	5	6	(NA)
Gasoline and diesel fuel	59 259	54 374	33 328	(NA)	2	3	2	(NA)
On highway use	37 950	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Off highway use	21 308	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	6 408	4 612	5 040	(NA)	3	4	3	(NA)
Rental cost for machinery, equipment, and buildings	69 519	35 320	24 896	(NA)	3	3	2	(NA)
For machinery and equipment	51 715	26 163	19 568	14 648	4	3	2	2
For buildings	17 804	9 156	5 328	(NA)	5	5	3	(NA)
Selected purchased services	86 368	56 283	53 871	(NA)	3	2	2	(NA)
Communication services	17 212	12 210	9 262	(NA)	4	2	4	(NA)
Repairs to buildings and other structures	3 419	2 417	1 821	(NA)	6	7	8	(NA)
Repairs to machinery and equipment	65 737	41 654	42 787	(NA)	3	2	2	(NA)
Ownership of construction projects:								
Value of construction work	4 291 125	2 870 903	2 349 977	1 350 067	1	1	1	3
Government owned	1 123 307	790 300	570 405	468 506	2	3	1	2
Federal	335 107	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
State and local	788 200	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Privately owned	3 167 817	2 080 603	1 779 572	881 561	3	2	1	4

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	792 045	711 372	3	2
Capital expenditures, other than land -----	88 764	62 839	3	3
New -----	62 900	44 299	4	2
Used -----	25 863	18 540	6	5
Retirements and disposition of depreciable assets -----	35 211	33 877	6	8
End-of-year gross book value of depreciable assets -----	845 598	740 334	3	2
Depreciation charges during year -----	90 396	84 098	2	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	161 421	117 917	10	4
Capital expenditures, other than land -----	13 032	8 451	13	5
New buildings and other structures -----	9 212	7 679	17	6
Used buildings and other structures -----	3 820	772	17	18
Retirements and disposition of depreciable assets -----	4 809	6 659	23	30
End-of-year gross book value of depreciable assets -----	169 645	119 709	11	3
Depreciation charges during year -----	13 319	8 848	10	6
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	630 623	593 455	2	2
Capital expenditures, other than land -----	75 731	54 387	3	3
New machinery and equipment, including automobiles and trucks -----	53 688	36 620	3	3
New automobiles and trucks, intended primarily for highway use -----	22 622	11 586	5	5
Used machinery and equipment, including automobiles and trucks -----	22 043	17 767	6	6
Retirements and disposition of depreciable assets -----	30 401	27 218	6	7
End-of-year gross book value of depreciable assets -----	675 953	620 624	2	2
Depreciation charges during year -----	77 077	75 250	2	3

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	5 607	1
Value of construction work	4 291 125	1
Establishments with inventories:		
Number	2 317	4
Value of construction work	2 052 209	4
Inventories ¹ :		
End of 1987, materials and supplies	65 553	13
End of 1986, materials and supplies	65 427	11
Establishments with no inventories:		
Number	2 647	4
Value of construction work	1 746 115	3
Establishments not reporting:		
Number	643	10
Value of construction work	492 801	5

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—									1,000 employees or more
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees		
1987											
Number of establishments	5 607	3 200	1 307	621	348	92	34	2	1	—	
All employees**	46 042	6 239	8 160	8 050	10 541	6 536	5 081	1 433	(D)	—	
Payroll, all employees	951 720	79 009	122 634	152 065	244 243	173 091	133 481	47 196	(D)	—	
Construction worker hours (thousands)	63 210	7 824	9 584	10 764	14 452	9 992	8 292	2 298	(D)	—	
Dollar value business done	4 475 208	587 116	577 096	632 664	1 062 565	734 179	626 509	255 076	(D)	—	
Value of construction work ¹	4 291 125	557 417	545 607	620 466	1 032 508	702 263	577 786	255 076	(D)	—	
Net value of construction work†	3 230 058	421 936	444 310	497 685	773 491	515 475	577 160	(D)	(D)	—	
Value added††	1 958 207	229 854	252 239	307 050	467 558	328 004	256 479	117 021	(D)	—	
Cost of materials, components, supplies, and fuels	1 411 227	203 522	205 476	199 838	330 620	219 387	252 383	(D)	(D)	—	
Cost of construction work subcontracted to others	1 061 067	135 481	101 296	122 781	259 017	186 788	255 702	(D)	(D)	—	
Rental cost for machinery, equipment, and buildings	69 519	5 967	8 643	11 500	15 996	10 420	16 993	(D)	(D)	—	
Capital expenditures, other than land	88 764	11 655	8 486	13 346	19 765	18 772	16 737	(D)	(D)	—	
End-of-year gross book value of depreciable assets	845 598	95 273	94 400	105 531	185 221	182 627	182 544	(D)	(D)	—	
1982											
All employees**	42 414	7 003	6 720	6 670	8 949	4 228	4 102	2 364	2 377	—	
Value of construction work ¹	2 870 903	358 116	380 681	378 984	620 008	370 704	405 868	262 611	93 931	—	
Value added††	1 315 858	164 847	176 886	188 939	277 186	162 564	191 069	95 163	59 202	—	
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	1	3	5	5	2	1	(W)	(W)	(D)	—	
Net value of construction work†	1	6	7	4	2	(W)	(W)	(D)	(D)	—	
Capital expenditures, other than land	3	13	15	11	9	(W)	(W)	(D)	(D)	—	

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments -----	5 607	(S)	(S)	(S)	1 547	931	537	505	177	104	56
All employees** -----	46 042	(S)	(S)	(S)	5 463	5 824	5 172	7 885	5 920	6 073	6 633
Payroll, all employees -----	951 720	(S)	(S)	(S)	67 655	87 556	97 034	172 458	147 340	163 284	193 991
Construction worker hours (thousands) -----	63 210	(S)	(S)	(S)	6 300	7 871	6 106	10 777	8 587	9 557	10 421
Dollar value of business done -----	4 475 208	(S)	(S)	(S)	246 047	322 071	375 356	795 408	623 869	737 296	1 287 307
Value of construction work ¹ -----	4 291 125	(S)	(S)	(S)	240 151	310 621	367 134	765 366	604 216	695 075	1 221 821
Net value of construction work† -----	3 230 058	(S)	(S)	(S)	222 542	282 688	317 535	591 215	483 909	525 841	725 372
Value added†† -----	1 958 207	(S)	(S)	(S)	137 357	176 635	191 793	332 702	302 335	309 163	458 506
Cost of materials, components, supplies, and fuels -----	1 411 227	(S)	(S)	(S)	90 689	116 417	131 382	273 109	199 200	<u>568 314</u>	(D)
Cost of construction work subcontracted to others -----	1 061 067	(S)	(S)	(S)	17 608	27 932	49 599	174 151	120 307	<u>665 683</u>	(D)
Rental cost for machinery, equipment, and buildings -----	69 519	(S)	(S)	(S)	4 833	5 911	6 859	10 550	9 425	13 071	17 704
Capital expenditures, other than land -----	88 764	(S)	(S)	(S)	8 123	7 696	6 397	12 295	16 747	12 654	22 733
End-of-year gross book value of depreciable assets -----	845 598	(S)	(S)	(S)	57 125	76 021	66 542	99 094	137 256	167 133	218 226
1982											
All employees** -----	42 414	823	975	2 445	5 658	4 858	5 320	6 584	4 817	3 238	7 695
Value of construction work ¹ -----	2 870 903	8 150	20 685	75 333	210 664	255 251	308 614	482 645	362 782	309 793	836 985
Value added†† -----	1 315 858	4 637	11 459	42 934	110 271	125 654	143 603	228 970	180 260	136 755	331 312
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	(S)	(S)	(S)	6	7	5	3	2	1	(W)
Net value of construction work† -----	1	(S)	(S)	(S)	5	7	6	5	5	4	(W)
Capital expenditures, other than land -----	3	(S)	(S)	(S)	15	17	14	11	10	2	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	4 291 125	2 809 926	813 765	513 758	1	2	2	2
Building construction	2 908 206	1 967 320	583 300	339 665	2	3	3	4
Single-family houses	890 121	639 785	126 739	123 596	6	8	7	7
Single-family houses, detached	794 751	565 722	115 802	113 226	6	9	8	8
Single-family houses, attached	95 369	74 062	10 936	10 369	13	16	18	12
Apartment buildings with two or more apartments	125 555	98 898	18 114	8 542	4	4	8	12
Other residential buildings, including hotels and motels	60 535	41 238	11 123	8 173	5	6	12	10
Hotels and motels	35 449	26 715	4 600	4 133	4	5	6	7
Other residential buildings, excluding hotels and motels	25 086	14 522	6 523	4 040	11	14	19	18
Office buildings	395 857	278 008	90 882	26 965	3	4	4	3
Other commercial buildings such as stores, restaurants, and automobile service stations	420 715	286 021	97 060	37 632	2	3	4	6
Industrial buildings and warehouses	442 130	280 492	94 301	67 336	5	8	4	4
Industrial buildings	328 465	195 069	78 394	55 001	4	5	4	4
Warehouses	113 665	85 423	15 906	12 335	18	23	4	10
Religious buildings	128 851	101 443	19 327	8 080	2	2	4	10
Educational buildings	160 635	86 083	52 910	21 640	4	6	6	11
Hospitals and institutional buildings	167 335	91 699	57 865	17 770	4	4	9	11
Farm buildings	38 577	26 837	2 576	9 163	23	30	20	16
Amusement, social, and recreational buildings	19 455	11 159	3 933	4 362	10	7	14	38
Other nonresidential buildings	40 519	25 657	8 470	6 406	14	17	24	23
Land development for buildings	17 921	(NA)	(NA)	(NA)	20	(NA)	(NA)	(NA)
Nonbuilding construction	1 247 165	842 605	230 465	174 093	1	1	3	4
Highways, streets, and related facilities	521 115	330 310	108 517	82 287	2	1	3	4
Parking areas including private driveways	41 241	28 669	8 531	4 040	7	8	7	17
Bridges, tunnels, and elevated highways	145 045	113 960	22 987	8 097	3	3	3	14
Dam and reservoir construction	31 081	28 702	(D)	(D)	1	1	(D)	(D)
Power and communication transmission lines, towers, and related facilities	78 308	42 400	27 816	8 091	5	9	2	10
Sewers, water mains, and related facilities	141 806	107 812	15 081	18 913	6	7	9	12
Sewers, sewer lines, and related facilities	86 224	62 163	12 284	11 777	6	4	10	18
Water mains and related facilities	55 581	45 648	2 797	7 136	12	14	18	9
Pipeline, other than sewer or water lines	30 532	23 400	2 655	4 476	9	8	19	18
Heavy industrial facilities	62 044	(D)	(D)	10 115	4	(D)	(D)	17
Blast furnaces, petroleum refineries, and chemical complexes	17 330	3 854	5 715	7 760	13	15	7	22
Power plants	44 713	(D)	(D)	(D)	1	(D)	(D)	(D)
Sewage treatment and water treatment plants	49 983	28 569	19 212	2 201	10	1	27	1
Sewage treatment plants	27 402	18 819	7 711	871	1	1	2	(W)
Water treatment plants	22 580	9 750	*11 500	1 329	23	1	45	1
Earthmoving, nonbuilding	27 090	19 785	5 775	1 529	22	23	23	24
Other nonbuilding construction	118 920	19 139	4 365	10 175	15	14	18	30
Construction work, n.s.k.	135 755	(NA)	(NA)	(NA)	7	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	2 870 903	2 275 374	(NA)	595 529	1	1	(NA)	2
Building construction	1 730 637	1 395 156	(NA)	335 480	1	1	(NA)	2
Single-family houses	473 918	348 609	(NA)	125 308	4	5	(NA)	4
Single-family houses, detached	406 241	290 913	(NA)	115 328	3	5	(NA)	5
Single-family houses, attached	67 676	57 696	(NA)	9 980	13	16	(NA)	17
Apartment buildings with two or more apartments	110 598	94 952	(NA)	15 646	3	3	(NA)	6
Other residential buildings, including hotels and motels	42 535	37 965	(NA)	4 569	4	5	(NA)	7
Hotels and motels	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Other residential buildings, excluding hotels and motels	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Office buildings	236 345	196 554	(NA)	39 791	1	2	(NA)	3
Other commercial buildings such as stores, restaurants, and automobile service stations	164 386	131 884	(NA)	32 502	4	3	(NA)	9
Industrial buildings and warehouses	288 811	228 318	(NA)	60 492	3	4	(NA)	3
Industrial buildings	197 950	149 755	(NA)	48 194	4	5	(NA)	4
Warehouses	90 861	78 563	(NA)	12 297	5	6	(NA)	8
Religious buildings	42 702	35 424	(NA)	7 277	3	4	(NA)	4
Educational buildings	140 140	123 530	(NA)	16 609	2	3	(NA)	5
Hospitals and institutional buildings	90 820	73 008	(NA)	17 811	2	2	(NA)	4
Farm buildings	91 066	79 633	(NA)	11 432	9	9	(NA)	12
Amusement, social, and recreational buildings	40 448	38 061	(NA)	2 386	2	3	(NA)	6
Other nonresidential buildings	8 868	7 218	(NA)	1 657	20	24	(NA)	6
Nonbuilding construction	892 783	673 908	(NA)	218 874	1	1	(NA)	2
Highways, streets, and related facilities	297 597	177 289	(NA)	120 307	2	2	(NA)	2
Bridges, tunnels, and elevated highways	69 586	56 217	(NA)	13 368	3	4	(NA)	2
Dam and reservoir construction	12 692	9 734	(NA)	2 957	7	6	(NA)	11
Conservation and development construction	23 062	19 587	(NA)	3 474	8	7	(NA)	13
Power and communication transmission lines, towers, and related facilities	51 284	35 208	(NA)	16 075	4	4	(NA)	9
Sewers, water mains, and related facilities	107 362	93 674	(NA)	13 687	2	2	(NA)	7
Sewers, sewer lines, and related facilities	72 141	67 448	(NA)	4 693	2	1	(NA)	20
Water mains and related facilities	35 220	26 226	(NA)	8 994	4	5	(NA)	6
Pipeline, other than sewer or water lines	16 676	14 711	(NA)	1 965	13	14	(NA)	16
Railroads	40 451	(D)	(NA)	(D)	6	(D)	(NA)	(D)
Heavy industrial facilities	136 170	123 383	(NA)	12 787	1	1	(NA)	3
Blast furnaces, petroleum refineries, and chemical complexes	116 808	107 306	(NA)	9 502	1	1	(NA)	5
Power plants	19 361	16 077	(NA)	3 284	3	3	(NA)	5
Sewage treatment and water treatment plants	59 941	55 496	(NA)	4 445	1	1	(NA)	4
Sewage treatment plants	41 176	(D)	(NA)	(D)	2	(D)	(NA)	(D)
Water treatment plants	18 764	(D)	(NA)	(D)	1	(D)	(NA)	(D)
Other nonbuilding construction	77 962	(D)	(NA)	(D)	9	(D)	(NA)	(D)
Construction work, n.s.k.	247 482	206 308	(NA)	41 173	4	4	(NA)	5

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	5 607	36 830	63 210	32 701	13 123	37 539	16 054
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	782	2 336	3 697	2 290	878	2 313	888
1522	Other residential buildings -----	49	389	685	389	165	405	182
1531	Operative builders -----	198	(D)	623	367	114	431	177
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	88	908	1 819	823	401	951	458
1542	Nonresidential buildings, n.e.c. -----	453	4 015	6 760	3 723	1 453	4 070	1 733
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	110	3 746	7 431	2 717	1 082	3 990	2 018
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	47	902	1 539	659	266	998	432
1623	Water, sewer, and utility lines -----	193	1 542	2 850	1 245	552	1 490	679
1629	Heavy construction, n.e.c. -----	195	1 708	3 367	1 497	701	1 786	844
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	847	4 361	7 711	4 111	1 772	4 399	1 893
1721	Painting and paper hanging -----	276	1 109	1 727	866	349	1 203	451
1731	Electrical work -----	425	3 495	6 568	3 192	1 445	3 370	1 572
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	223	1 107	1 587	960	303	1 168	422
1742	Plastering, drywall, and insulation work --	187	1 526	2 269	1 546	557	1 523	574
1743	Terrazzo, tile, marble, and mosaic work --	16	69	127	73	40	68	28
175	Carpentry and floor work:							
1751	Carpentry -----	341	1 238	1 702	1 097	322	1 246	445
1752	Floor laying and other floor work -----	70	236	265	234	60	230	66
1761	Roofing, siding, and sheet metal work -----	281	1 911	2 811	1 738	597	1 898	700
1771	Concrete work -----	298	2 038	3 292	1 642	609	2 190	905
1781	Water well drilling -----	*18	93	212	84	45	110	64
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	21	422	605	375	130	354	123
1793	Glass and glazing work -----	52	343	592	320	141	335	136
1794	Excavation work -----	134	792	1 242	694	244	809	318
1795	Wrecking and demolition work -----	4	(D)	(D)	(D)	32	(D)	37
1796	Installing building equipment, n.e.c. -----	45	1 024	2 025	1 095	526	1 028	505
1799	Special trade contractors, n.e.c. -----	224	996	1 450	852	305	1 062	370
6552	Land subdividers and developers, n.e.c. --	21	(S)	(S)	(S)	(S)	(S)	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
40 579	17 909	36 502	16 122	1	1	1	1	1	1	1	1	1	1	15, 16, 17
														15
2 440 403	983 174	2 300 360	947 162	7 12	10 21	8 12	11 23	8 13	10 22	7 12	10 20	7 12	10 21	152 1521 1522
393	(D)	(D)	(D)	(D)	21	14	20	15	21	16	(D)	(D)	(D)	1531 154
977 4 306	515 1 878	882 3 961	444 1 695	9 4	9 5	10 5	9 6	9 4	8 5	9 4	9 6	9 4	9 6	1541 1542
														16
4 498	2 433	3 777	1 898	2	4	2	3	4	4	3	5	2	4	1611 162 1622
1 062 1 742 1 907	474 825 934	890 1 690 1 644	366 793 886	7 7 6	5 8 7	6 9 6	5 9 7	7 9 8	4 9 7	9 7 6	5 8 6	6 6 6	5 8 7	1623 1629 17
4 514	2 014	4 422	2 030	3	5	3	5	3	4	3	5	4	5	1711
1 389	526	980	399	10	11	10	13	14	12	12	12	10	11	1721
3 833	1 820	3 587	1 730	3	4	3	4	3	5	4	5	4	5	1731 174
1 259 1 549 70	437 570 28	1 040 1 486 68	423 565 30	9 8 12	11 7 24	11 6 7	11 7 33	10 7 8	12 7 17	10 13 15	11 9 24	11 7 19	15 8 20	1741 1742 1743
1 427 259	522 75	1 184 223	411 62	9 17	13 15	9 18	13 17	9 17	12 16	9 16	13 12	11 17	15 17	175 1751 1752
2 089	787	1 920	725	4	5	4	6	5	6	5	5	5	8	1761
2 346	988	1 974	787	5	7	6	8	6	7	6	7	6	7	1771
100	51	81	51	14	16	9	11	21	22	15	19	9	9	1781
412 366 886 (D)	144 157 375 (D)	548 351 779 (D)	207 156 303 (D)	(W) 5 8 (D)	6 7 11 (D)	(W) 4 9 (D)	5 8 13 (D)	(W) 5 8 (D)	7 6 11 (D)	(W) 6 8 (D)	8 7 10 (D)	(W) 5 9 (D)	5 6 11 (D)	179 1791 1793 1794 1795
1 090 1 153	534 428	882 917	458 345	5 12	8 14	3 12	5 15	5 12	7 16	9 12	15 14	3 12	6 15	1796 1799
(S)	(S)	(S)	(S)	74	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers -----	8.2	20.7	1 716.3	116.5	.222	.329	.247	.016
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	3.9	14.7	1 582.6	119.8	.159	.353	.263	.010
1522	Other residential buildings -----	9.4	18.6	1 760.9	222.4	.099	.202	.648	.002
1531	Operative builders -----	(D)	(D)	(D)	(D)	(D)	.328	(D)	.002
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	14.2	20.8	2 003.3	180.3	.159	.341	.377	.009
1542	Nonresidential buildings, n.e.c. -----	11.6	22.2	1 683.7	214.5	.135	.248	.524	.008
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	40.9	25.5	1 983.7	161.2	.190	.368	.220	.027
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	22.1	23.5	1 706.2	115.2	.235	.352	.214	.017
1623	Water, sewer, and utility lines -----	9.9	19.9	1 848.2	101.8	.241	.372	.105	.041
1629	Heavy construction, n.e.c. -----	10.5	20.8	1 971.3	91.9	.272	.321	.119	.043
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	6.9	21.1	1 768.2	92.2	.305	.382	.071	.014
1721	Painting and paper hanging -----	4.6	15.3	1 557.3	47.6	.365	.262	.034	.010
1731	Electrical work -----	10.7	24.2	1 879.3	88.6	.354	.373	.030	.013
174	Masonry, stone work, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	5.6	17.2	1 433.6	51.8	.377	.259	.060	.005
1742	Plastering, drywall, and insulation work -----	9.4	20.7	1 486.9	71.9	.331	.344	.094	.007
1743	Terrazzo, tile, marble, and mosaic work -----	5.4	16.6	1 840.6	96.5	.215	(D)	.017	.007
175	Carpentry and floor work:								
1751	Carpentry -----	4.2	14.0	1 374.8	51.8	.312	.339	.110	.006
1752	Floor laying and other floor work -----	4.3	21.0	1 122.9	115.1	.232	.503	.120	.009
1761	Roofing, siding, and sheet metal work -----	8.5	17.8	1 471.0	73.9	.301	.423	.049	.015
1771	Concrete work -----	8.0	19.2	1 615.3	85.7	.263	.352	.073	.027
1781	Water well drilling -----	*6.7	20.8	2 279.6	102.9	.263	.477	(D)	.004
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	23.8	27.7	1 433.6	75.0	.438	(D)	.110	.036
1793	Glass and glazing work -----	8.9	18.9	1 725.9	86.3	.296	.498	.012	.018
1794	Excavation work -----	7.4	19.1	1 568.2	97.0	.245	.202	.111	.054
1795	Wrecking and demolition work -----	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	26.3	25.4	1 977.5	67.0	.438	(D)	.101	.009
1799	Special trade contractors, n.e.c. -----	5.7	13.1	1 455.8	51.7	.323	.374	.063	.017
6552	Land subdividers and developers, n.e.c. -----	*2.9	*22.8	(S)	*1 773.3	.034	(S)	.446	(D)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	KANSAS CITY, MO-KS MSA											
	Construction Industries and land subdividers and developers -----	3 783	40 356	966 349	4 243 206	3 054 538	1 899 811	1 279 221	1 188 669	60 205	1	1
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses -----	529	2 560	42 673	(D)	(D)	90 042	(D)	67 468	2 576	8	(D)
1522	Other residential buildings -----	46	392	7 264	76 647	23 799	10 576	13 910	52 848	618	10	3
1531	Operative builders -----	159	582	14 334	179 537	99 570	44 764	58 985	79 967	*667	15	20
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses -----	45	620	17 754	211 076	81 973	35 910	(D)	129 103	724	10	4
1542	Nonresidential buildings, n.e.c. -----	298	4 573	124 923	901 614	358 187	239 613	178 007	543 427	4 506	4	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	74	2 231	66 793	311 882	249 472	168 152	99 546	62 410	10 148	4	2
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction -----	23	683	19 930	102 154	82 670	36 372	(D)	19 484	1 941	8	3
1623	Water, sewer, and utility lines -----	101	1 400	39 927	179 099	160 620	91 710	(D)	18 479	6 948	6	3
1629	Heavy construction, n.e.c. -----	75	958	25 673	93 699	78 023	55 020	24 792	15 676	3 931	5	3
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning -----	425	5 144	141 248	524 934	419 859	254 522	170 846	105 075	6 705	3	2
1721	Painting and paper hanging -----	252	1 673	27 607	64 480	61 838	47 071	15 392	2 641	967	11	8
1731	Electrical work -----	259	4 104	118 229	317 772	308 317	203 020	107 630	9 455	4 438	2	2
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework -----	151	2 050	30 270	79 040	76 248	55 132	21 508	2 792	2 021	6	7
1742	Plastering, drywall, and insulation work -----	166	2 066	47 418	145 516	135 434	85 787	53 755	10 082	1 399	4	4
1743	Terrazzo, tile, marble, and mosaic work -----	17	103	2 320	6 389	6 346	4 062	(D)	43	92	3	2
175	Carpentry and floor work:											
1751	Carpentry -----	267	1 588	25 795	65 505	61 769	39 303	23 369	3 737	1 377	9	8
1752	Floor laying and other floorwork -----	54	356	8 376	31 524	28 084	13 819	(D)	3 440	*286	10	15
1761	Roofing, siding, and sheet metal work -----	184	2 014	45 308	151 087	144 885	87 728	57 957	6 201	2 447	3	3
1771	Concrete work -----	279	3 101	65 629	226 251	214 287	136 764	79 175	11 963	5 078	5	4
1781	Water well drilling -----	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	19	448	11 275	26 339	24 506	20 369	(D)	1 833	309	6	2
1793	Glass and glazing work -----	31	270	7 144	24 726	23 870	12 819	11 786	856	450	8	6
1794	Excavation work -----	120	1 056	22 643	85 157	76 729	58 397	18 445	8 428	924	10	8
1795	Wrecking and demolition work -----	4	(D)	(D)	2 463	(D)	(D)	304	(D)	*81	(D)	(D)
1796	Installing building equipment, n.e.c. -----	25	907	24 554	53 264	48 613	36 440	(D)	*4 651	263	5	5
1799	Special trade contractors, n.e.c. -----	138	1 244	23 451	92 193	83 415	53 699	34 422	8 778	1 228	9	14
6552	Land subdividers and developers, n.e.c. -----	39	143	3 717	*48 175	*28 622	14 485	(S)	*19 553	(D)	34	58

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Minnesota

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SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Minnesota. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the SIC Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 40,021 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$11.4 billion in total value of business done.

Most of the 40,021 construction establishments were small. Of the total, 30,337 were nonemployers, and over half of the employer establishments had less than 5 employees. The 3,905 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 78 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$10.0 billion of total dollar value of business done. Of this amount, \$9.7 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$2.6 billion, leaving net value of construction work of \$7.1 billion. In addition, these establishments paid out \$3.3 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$4.3 billion. (See Introduction and appendixes for explanation of terms.)

There were 9,684 establishments with total employment averaging 83,814 during the year. Total payroll for 1987 was \$2.1 billion. Total hours worked by construction workers during the year were 115 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 30,337 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$1.4 billion. Most of these establishments, about 76 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. Selected Costs Per Dollar Value of Business Done
(Percent)

1987
1982

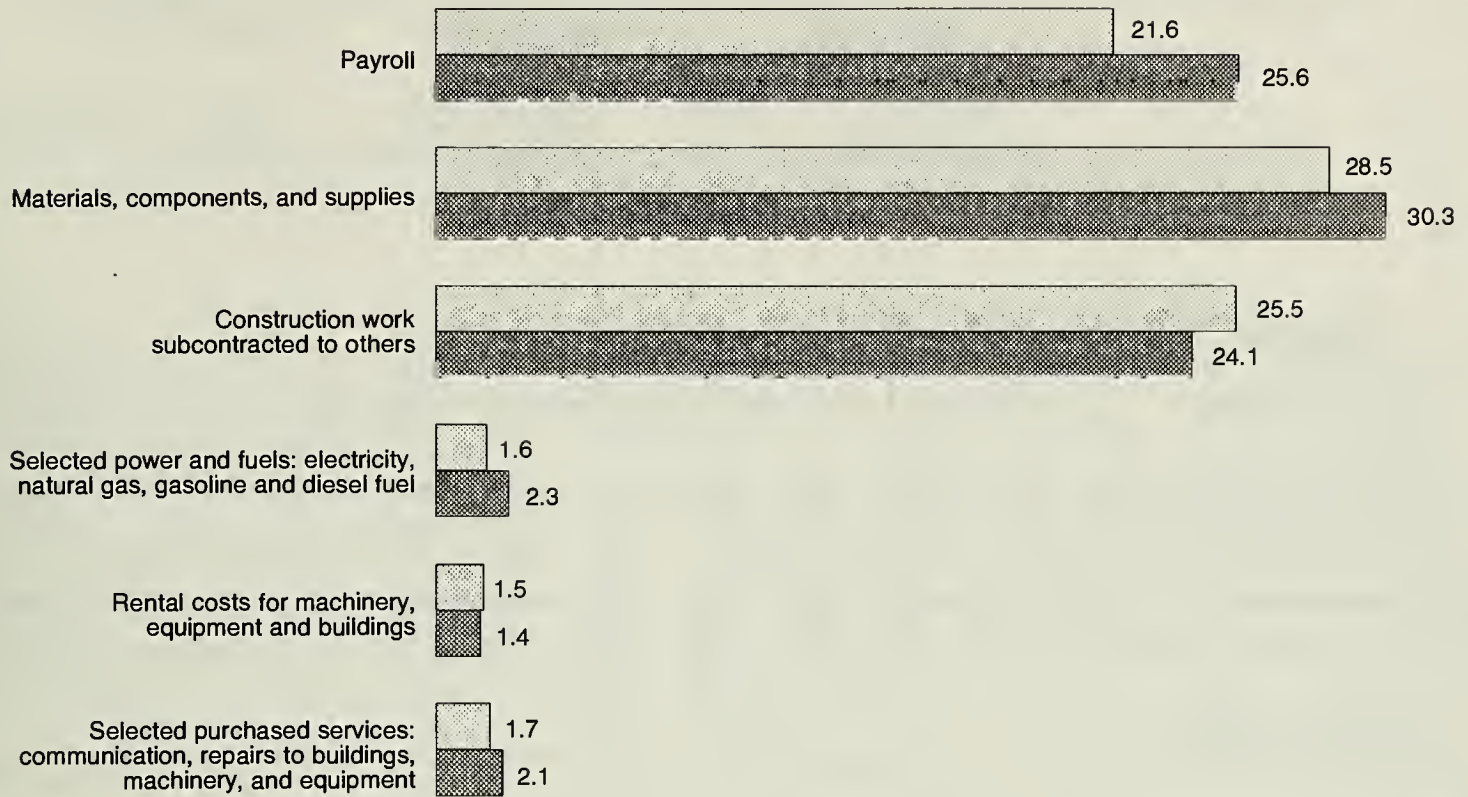


Figure 2. Value of Construction Work by Type of Construction
(Percent)

1987
1982

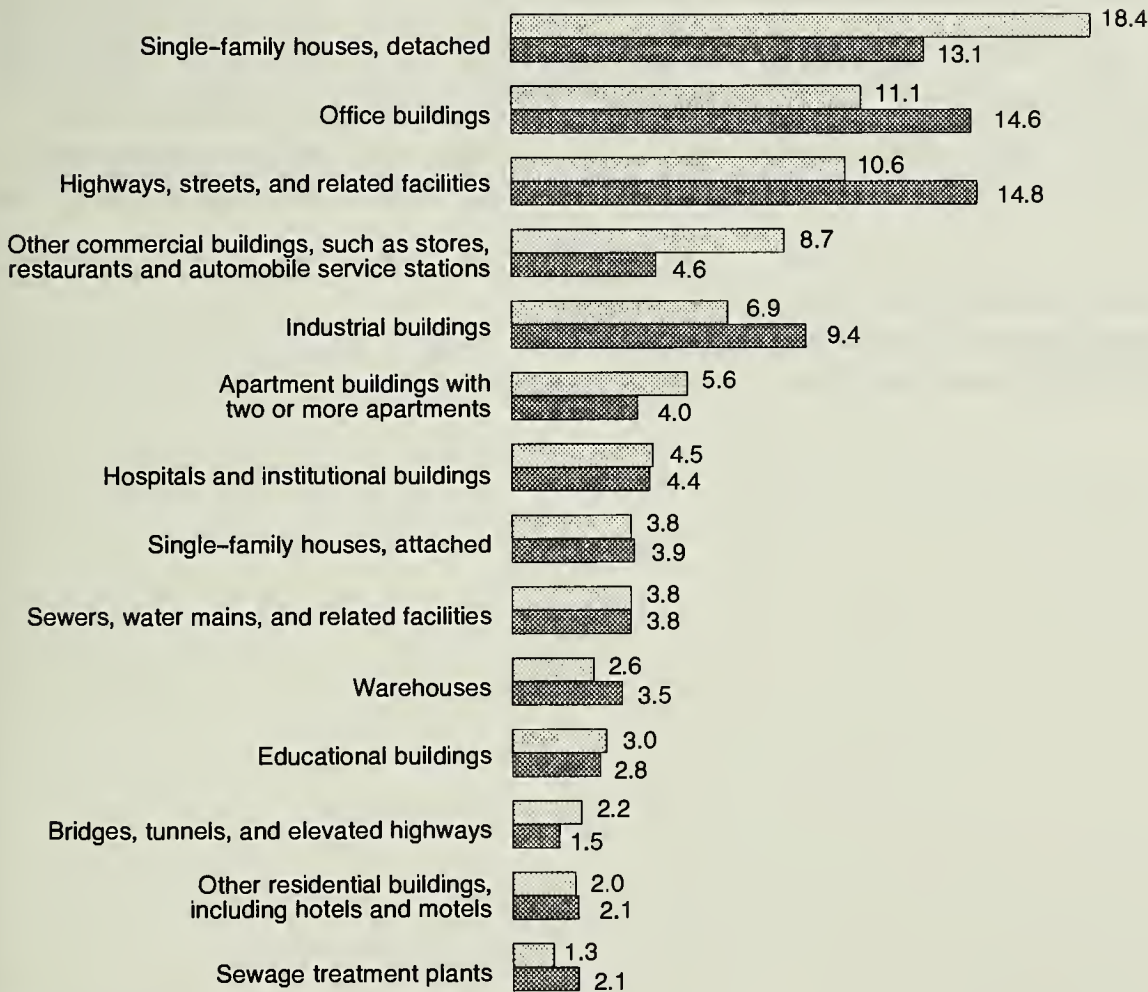


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done	Number	Proprie- tors and working partners	Dollar value of business done	Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
15, 16, 17	Construction industries and land subdividers and developers -----	40 021	32 601	83 814	11 422 980	30 337	29 865	1 404 793	9 684	2 736	83 814	10 018 187	1	1
	Construction industries -----	39 313	31 950	83 477	11 201 578	29 721	29 223	1 247 594	9 592	2 727	83 477	9 953 984	1	1
15	Building construction—General contractors and operative builders ----	8 817	6 252	19 202	4 324 090	6 124	5 643	510 486	2 693	609	19 202	3 813 604	2	2
16	Heavy construction other than building construction— contractors-----	1 313	748	15 160	2 155 359	518	493	36 142	795	255	15 160	2 119 217	1	1
17	Special trade contractors -----	29 183	24 950	49 115	4 722 128	23 079	23 087	700 965	6 104	1 863	49 115	4 021 163	1	1
1711	Plumbing, heating, and air-conditioning --	2 653	1 777	11 260	1 140 210	1 461	1 457	75 455	1 192	320	11 260	1 064 755	2	1
1731	Electrical work-----	2 074	1 416	8 581	747 245	1 129	1 120	49 339	945	296	8 581	697 906	2	2
6552	Land subdividers and developers, n.e.c.²-----	694	642	323	221 392	616	642	157 199	78	-	(S)	64 193	26	12
	1982													
15, 16, 17	Construction industries and land subdividers and developers -----	31 993	25 896	73 461	6 894 212	22 733	22 628	884 886	9 260	3 268	73 461	6 009 326	(S)	1
	Construction industries -----	31 535	25 545	73 214	6 794 776	22 368	22 301	807 430	9 167	3 244	73 214	5 987 346	1	1
15	Building construction—General contractors and operative builders ----	6 799	5 089	17 338	2 341 348	4 456	4 292	249 777	2 343	797	17 338	2 091 571	2	1
16	Heavy construction other than building construction— contractors-----	1 696	1 171	14 273	1 501 818	985	992	154 003	711	179	14 273	1 347 815	2	1
17	Special trade contractors -----	23 040	19 285	41 603	2 951 610	16 927	17 017	403 650	6 113	2 268	41 603	2 547 960	1	1
1711	Plumbing, heating, and air-conditioning --	2 377	1 599	10 015	768 679	1 258	1 257	50 012	1 119	342	10 015	718 667	2	1
1731	Electrical work-----	1 960	1 305	7 381	527 828	994	1 004	44 851	966	301	7 381	482 977	2	1
6552	Land subdividers and developers, n.e.c.²-----	451	348	241	99 431	365	327	77 456	86	21	241	21 975	17	18

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State -----	40 021	32 601	83 814	11 422 980	30 337	29 865	1 404 793	9 684	2 736	83 814	10 018 187	1	1
\$10,000,000 or more -----	141	2	22 026	4 146 039	-	-	-	141	2	22 026	4 146 039	(W)	1
\$5,000,000 to \$9,999,999 -----	179	5	8 209	1 215 299	5	-	33 094	174	*5	8 209	1 182 205	1	4
\$2,500,000 to \$4,999,999 -----	393	51	10 028	1 366 353	22	19	72 571	371	*32	10 028	1 293 782	2	4
\$1,000,000 to \$2,499,999 -----	1 029	137	13 419	1 532 868	86	62	126 278	943	75	13 419	1 406 590	2	4
\$500,000 to \$999,999 -----	1 372	369	10 163	971 824	212	181	144 659	1 160	188	10 163	827 165	4	5
\$250,000 to \$499,999 -----	2 278	986	8 850	784 707	529	473	179 317	1 749	513	8 850	605 390	5	5
\$100,000 to \$249,999 -----	4 674	3 143	7 198	733 430	2 075	2 006	314 453	2 599	1 137	7 198	418 977	5	4
\$50,000 to \$99,999 -----	(S)	(S)	(S)	(S)	2 999	2 962	212 840	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999 -----	(S)	(S)	(S)	(S)	4 328	4 278	154 408	(S)	(S)	(S)	(S)	(S)	(S)
Less than \$25,000 -----	(S)	(S)	(S)	(S)	20 081	19 884	167 172	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	7 040	6 955	115 633	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	4 419	4 379	32 244	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	3 477	3 451	12 748	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	5 145	5 099	6 548	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State -----	31 993	25 896	73 461	6 894 212	22 733	22 628	884 886	9 260	3 268	73 461	6 009 326	1	1
\$10,000,000 or more -----	80	8	17 347	2 401 528	4	4	157 969	76	4	17 347	2 243 559	(W)	(W)
\$5,000,000 to \$9,999,999 -----	119	10	7 222	816 180	5	8	36 844	114	2	7 222	779 336	(W)	(W)
\$2,500,000 to \$4,999,999 -----	215	16	7 606	734 752	11	10	38 271	204	6	7 606	696 481	(W)	(W)
\$1,000,000 to \$2,499,999 -----	537	53	10 145	821 679	29	34	43 923	508	19	10 145	777 756	2	3
\$500,000 to \$999,999 -----	863	128	8 521	591 485	51	41	33 556	812	87	8 521	557 929	4	4
\$250,000 to \$499,999 -----	1 305	444	6 695	442 134	205	172	67 753	1 100	272	6 695	374 381	5	5
\$100,000 to \$249,999 -----	3 532	1 956	9 273	551 657	997	988	147 362	2 535	968	9 273	404 295	5	3
\$50,000 to \$99,999 -----	3 676	2 843	3 697	259 231	1 935	1 991	133 210	1 741	852	3 697	126 021	5	4
\$25,000 to \$49,999 -----	3 909	3 452	1 597	138 137	2 934	2 951	102 461	975	501	1 597	35 676	6	6
Less than \$25,000 -----	17 755	16 984	1 355	137 428	16 562	16 429	123 537	1 193	555	1 355	13 891	6	6
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	5 202	5 171	81 139	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	3 954	3 911	26 903	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	4 278	4 242	12 367	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	3 128	3 105	3 128	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
		A	B	C	D	E	F	G	H
	Construction industries and land subdividers and developers -----	9 684	83 814	66 237	2 093 881	1 543 598	115 018	9 702 867	7 143 880
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	1 681	6 640	5 173	117 093	80 508	7 625	692 733	492 853
1522	Other residential buildings -----	109	1 022	726	31 630	19 556	1 466	277 994	127 471
1531	Operative builders -----	270	2 025	1 001	54 988	19 374	1 687	711 990	401 937
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	102	1 603	1 216	40 705	24 809	2 109	289 067	194 127
1542	Nonresidential buildings, n.e.c. -----	531	7 912	6 025	198 580	142 708	10 254	1 681 795	593 771
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	269	7 869	6 668	225 626	179 798	12 588	1 224 946	972 315
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	17	1 413	1 159	41 269	30 746	2 243	154 728	131 681
1623	Water, sewer, and utility lines -----	228	3 427	2 825	92 925	70 771	5 479	447 500	362 336
1629	Heavy construction, n.e.c. -----	281	2 451	2 114	64 151	54 458	4 088	249 555	205 568
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	1 192	11 260	8 496	318 795	225 948	15 567	1 047 690	922 630
1721	Painting and paper hanging -----	413	2 692	2 310	57 143	47 577	3 691	143 589	134 557
1731	Electrical work -----	945	8 581	6 823	249 798	190 170	12 243	687 612	672 712
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	438	2 793	2 455	59 170	49 714	3 739	183 320	177 329
1742	Plastering, drywall, and insulation work -----	329	3 070	2 510	75 160	58 144	4 329	268 563	231 860
1743	Terrazzo, tile, marble, and mosaic work -----	72	641	510	16 048	11 719	792	51 529	49 118
175	Carpentry and floor work:								
1751	Carpentry -----	709	3 637	3 090	63 209	50 954	5 016	198 200	174 967
1752	Floor laying and other floor work -----	120	908	711	20 065	15 315	1 164	69 881	67 571
1761	Roofing, siding, and sheet metal work -----	381	3 456	2 687	77 224	55 423	4 346	270 921	250 797
1771	Concrete work -----	549	4 135	3 412	90 782	69 090	5 742	339 958	317 465
1781	Water well drilling -----	116	555	443	11 137	8 533	948	47 594	46 266
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	75	1 401	1 169	41 038	32 002	1 960	126 835	122 174
1793	Glass and glazing work -----	69	787	557	18 748	13 045	954	68 784	66 375
1794	Excavation work -----	273	1 692	1 348	45 801	36 044	2 480	184 266	167 304
1795	Wrecking and demolition work -----	6	*117	*101	1 438	922	*189	*6 195	*5 831
1796	Installing building equipment, n.e.c. -----	66	974	772	29 072	21 742	1 324	88 276	85 730
1799	Special trade contractors, n.e.c. -----	351	2 416	1 863	44 650	33 693	2 888	146 875	139 214
6552	Land subdividers and developers, n.e.c. -----	78	(S)	(S)	(S)	(S)	(S)	(S)	(S)

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
4 349 314	3 012 842	2 558 986	153 966	176 948	1 495 639	73 461	5 826 218	2 562 920	1	1	1	15, 16, 17
												15
271 143 69 102	243 012 63 876	199 879 150 522	5 754 1 592	10 780 1 654	56 122 14 322	5 570 1 001	377 640 109 684	144 031 26 902	4 8	5 7	15 36	152 1521 1522
216 724	194 434	310 053	2 189	8 395	72 143	1 923	254 390	74 049	6	8	16	1531
109 654 316 380	86 198 322 811	94 939 1 088 023	5 030 10 652	1 319 11 162	21 762 77 674	1 748 7 096	185 071 1 085 905	51 031 367 660	6 3	4 3	11 9	154 1541 1542
												16
631 481	378 200	252 630	51 172	34 497	428 885	5 628	559 131	221 231	2	1	5	1611
77 980 223 667 113 022	(D) 140 527 95 746	23 046 85 163 43 987	3 659 13 036 7 715	5 262 16 907 12 425	66 297 112 701 97 306	788 3 017 4 840	90 558 256 502 418 568	(D) 124 590 (D)	2 3 5	9 3 5	5 10 21	162 1622 1623 1629
												17
543 693	396 000	125 060	11 921	13 856	119 720	10 015	702 332	347 567	2	2	8	1711
102 721	33 361	9 031	1 760	2 129	16 352	1 834	71 341	50 393	5	4	12	1721
416 607	266 400	14 899	7 247	10 537	66 469	7 381	472 901	279 502	2	2	11	1731
108 529 149 313 36 086	69 307 86 528 21 222	5 990 36 703 2 410	1 436 2 651 366	2 646 4 074 731	18 680 22 215 5 877	1 703 3 504 331	74 168 193 435 19 763	42 170 116 104 12 474	5 4 10	4 4 8	21 17 37	174 1741 1742 1743
107 419 43 781	72 591 25 353	23 232 2 310	2 065 507	3 132 608	14 766 4 386	2 524 633	112 147 25 786	56 723 15 233	7 7	5 5	16 34	175 1751 1752
143 778	114 275	20 124	3 937	4 070	31 537	3 114	197 252	114 647	4	4	12	1761
200 254	122 233	22 492	3 884	6 944	64 590	3 174	180 984	94 313	5	6	14	1771
26 077	20 767	*1 327	1 005	4 226	37 113	580	38 356	25 312	11	11	19	1781
83 232 37 772 124 822 *4 269 59 149 102 366	40 837 35 285 45 601 *1 562 28 907 52 868	4 661 2 409 16 962 364 2 546 7 660	1 938 1 530 7 528 (S) 653 2 679	1 608 1 078 15 012 (D) (D) 2 801	14 778 4 129 85 219 (D) 5 623 24 139	1 107 537 2 684 84 1 118 1 280	48 318 43 103 154 778 3 708 79 595 57 896	39 547 22 237 108 289 3 049 55 764 38 696	4 8 6 53 4 7	8 4 5 54 2 8	17 22 17 (D) 7 18	179 1791 1793 1794 1795 1796 1799
(S)	(S)	(S)	(S)	(S)	(S)	241	12 900	7 932	(S)	(S)	(S)	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	9 684	9 260	9 711	7 975	1	2	2	3
Proprietors and working partners	2 736	3 268	5 453	4 642	4	3	4	5
All employees**	83 814	73 461	83 149	74 747	1	1	1	2
Construction workers:								
March	52 977	45 635	50 598	46 713	1	1	1	2
May	69 100	57 649	72 434	60 627	1	1	1	2
August	76 182	66 675	81 332	73 659	1	1	1	2
November	66 690	58 425	73 584	66 669	1	1	1	2
Average	66 237	58 060	69 540	62 817	1	1	1	2
Other employees:								
March	16 800	15 277	12 799	11 581	1	1	1	2
May	17 464	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
August	18 239	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
November	17 819	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Average	17 581	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	21 873	17 721	(NA)	(NA)	1	1	(NA)	(NA)
April to June	29 711	22 818	(NA)	(NA)	1	1	(NA)	(NA)
July to September	34 527	27 312	(NA)	(NA)	1	1	(NA)	(NA)
October to December	28 906	23 040	(NA)	(NA)	1	1	(NA)	(NA)
Total hours worked	115 018	90 892	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	2 093 881	1 490 342	1 154 289	812 253	1	1	1	2
Payroll, construction workers	1 543 598	1 139 218	932 707	656 103	1	1	1	2
Payroll, other employees	550 282	351 123	221 582	156 150	1	1	1	2
First quarter payroll, all employees	417 445	299 432	208 758	(NA)	1	1	1	(NA)
Employer costs for fringe benefits, all employees	541 009	260 798	216 502	(NA)	1	1	1	(NA)
Legally required expenditures	365 415	201 741	133 641	(NA)	1	1	1	(NA)
Voluntary expenditures	175 593	59 056	82 861	(NA)	1	1	1	(NA)
Dollar value of business done	10 018 187	6 009 326	4 715 529	2 925 836	1	1	1	2
Value of construction work ¹	9 702 867	5 826 218	4 561 549	2 840 363	1	1	1	2
Value of construction work subcontracted in from others	2 147 801	1 210 683	982 948	500 827	2	1	1	3
Land receipts ²	97 042	38 436	(NA)	(NA)	7	7	(NA)	(NA)
Other business receipts	218 277	144 671	153 980	85 473	3	2	4	3
Net value of construction†	7 143 880	4 377 691	3 593 846	2 186 945	1	1	1	2
Value added††	4 349 314	2 562 920	2 035 222	1 339 962	1	1	1	2
Selected costs	5 571 829	3 407 969	2 627 250	1 569 604	1	1	1	2
Materials, components, and supplies ³	2 851 639	1 822 309	1 568 612	916 186	1	1	1	2
Construction work subcontracted to others	2 558 986	1 448 526	967 703	653 418	2	1	1	2
Selected power, fuels, and lubricants	161 203	137 132	90 935	(NA)	1	1	1	(NA)
Electricity	17 676	12 899	9 631	(NA)	2	2	2	(NA)
Natural gas	8 844	8 523	4 897	(NA)	3	3	3	(NA)
Gasoline and diesel fuel	122 439	105 148	64 781	(NA)	1	2	1	(NA)
On highway use	77 228	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Off highway use	45 210	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	12 243	10 561	11 629	(NA)	2	3	7	(NA)
Rental cost for machinery, equipment, and buildings	153 966	81 909	52 119	(NA)	2	1	1	(NA)
For machinery and equipment	111 152	60 524	42 852	37 238	2	2	2	2
For buildings	42 813	21 385	9 267	(NA)	2	2	2	(NA)
Selected purchased services	172 356	124 171	112 954	(NA)	1	1	1	(NA)
Communication services	32 176	21 643	15 913	(NA)	2	2	2	(NA)
Repairs to buildings and other structures	8 682	5 473	4 188	(NA)	5	3	6	(NA)
Repairs to machinery and equipment	131 497	97 054	92 853	(NA)	2	1	1	(NA)
Ownership of construction projects:								
Value of construction work	9 702 867	5 826 218	4 561 549	2 840 363	1	1	1	2
Government owned	2 525 320	1 673 235	1 248 100	1 038 550	1	2	1	2
Federal	514 089	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
State and local	2 011 231	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Privately owned	7 177 546	4 152 983	3 313 449	1 801 813	1	1	1	2

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	1 412 395	1 362 600	2	1
Capital expenditures, other than land -----	176 948	151 096	3	1
New -----	125 190	116 535	3	1
Used -----	51 758	34 561	6	3
Retirements and disposition of depreciable assets -----	93 704	52 224	4	4
End-of-year gross book value of depreciable assets -----	1 495 639	1 461 472	2	1
Depreciation charges during year -----	157 698	147 671	2	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	237 761	241 333	4	2
Capital expenditures, other than land -----	25 575	58 472	7	1
New buildings and other structures -----	16 803	53 516	9	1
Used buildings and other structures -----	8 772	4 955	11	6
Retirements and disposition of depreciable assets -----	10 820	8 845	8	16
End-of-year gross book value of depreciable assets -----	252 517	290 959	4	2
Depreciation charges during year -----	20 016	15 724	5	3
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	1 174 633	1 121 267	2	1
Capital expenditures, other than land -----	151 372	92 624	3	2
New machinery and equipment, including automobiles and trucks -----	108 386	63 018	3	2
New automobiles and trucks, intended primarily for highway use -----	44 459	20 950	5	4
Used machinery and equipment, including automobiles and trucks -----	42 986	29 605	7	3
Retirements and disposition of depreciable assets -----	82 884	43 378	5	3
End-of-year gross book value of depreciable assets -----	1 243 121	1 170 512	2	1
Depreciation charges during year -----	137 682	131 947	2	2

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	9 684	1
Value of construction work	9 702 867	1
Establishments with inventories:		
Number	4 305	3
Value of construction work	5 380 906	2
Inventories ¹ :		
End of 1987, materials and supplies	149 796	3
End of 1986, materials and supplies	167 646	2
Establishments with no inventories:		
Number	3 971	3
Value of construction work	3 133 385	2
Establishments not reporting:		
Number	1 408	7
Value of construction work	1 188 576	3

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments -----	9 684	5 777	2 117	1 017	560	121	69	16	3	2
All employees** -----	83 814	11 523	13 447	13 403	16 629	8 360	10 286	5 349	4 813	(D)
Payroll, all employees -----	2 093 881	181 326	255 747	308 650	445 442	253 888	340 219	171 748	136 859	(D)
Construction worker hours (thousands) -----	115 018	13 579	16 949	17 487	23 134	12 213	15 887	8 403	7 362	(D)
Dollar value business done -----	10 018 187	1 108 469	1 294 667	1 358 176	2 059 202	1 094 001	2 252 784	(D)	850 886	(D)
Value of construction work ¹ -----	9 702 867	1 061 586	1 253 482	1 309 876	1 977 811	2 478 290	(D)	1 621 819	(D)	(D)
Net value of construction work† -----	7 143 880	849 109	975 849	1 061 636	1 492 443	754 528	1 050 385	518 606	441 322	(D)
Value added†† -----	4 349 314	480 435	581 196	635 813	933 646	479 899	957 618	(D)	280 705	(D)
Cost of materials, components, supplies, and fuels -----	3 012 843	394 514	411 505	456 557	911 636	(D)	421 486	417 144	(D)	(D)
Cost of construction work subcontracted to others -----	2 558 986	212 477	277 633	248 239	485 368	673 377	(D)	661 891	(D)	(D)
Rental cost for machinery, equipment, and buildings -----	153 966	10 030	15 894	20 188	29 374	20 275	27 077	17 073	14 054	(D)
Capital expenditures, other than land -----	176 948	24 741	29 920	29 851	38 330	18 029	22 694	6 873	6 508	(D)
End-of-year gross book value of depreciable assets -----	1 495 639	178 664	208 740	214 825	303 806	144 922	220 928	74 261	149 491	(D)
1982										
All employees** -----	73 461	12 042	11 143	10 937	12 528	8 078	8 189	4 730	5 813	(D)
Value of construction work ¹ -----	5 826 218	617 459	611 790	753 269	1 091 228	709 285	787 030	537 095	719 060	(D)
Value added†† -----	2 562 920	298 930	313 328	366 364	482 866	293 868	345 094	190 969	271 500	(D)
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees** -----	1	3	4	3	2	1	(W)	(W)	(W)	(D)
Net value of construction work† -----	1	4	4	3	1	(W)	(W)	(W)	(W)	(D)
Capital expenditures, other than land -----	3	11	11	10	6	4	(W)	(W)	(W)	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments -----	9 684	(S)	(S)	(S)	2 599	1 749	1 160	943	371	174	141
All employees** -----	83 814	(S)	(S)	(S)	7 198	8 850	10 163	13 419	10 028	8 209	22 026
Payroll, all employees -----	2 093 881	(S)	(S)	(S)	104 446	154 793	209 621	331 709	278 161	248 444	729 415
Construction worker hours (thousands) -----	115 018	(S)	(S)	(S)	8 423	11 121	13 385	18 037	13 490	11 818	34 497
Dollar value of business done -----	10 018 187	(S)	(S)	(S)	418 977	605 390	827 165	1 406 590	1 293 782	1 182 205	4 146 039
Value of construction work ¹ -----	9 702 867	(S)	(S)	(S)	409 612	594 555	806 419	1 356 093	1 248 897	1 124 919	4 027 408
Net value of construction work† -----	7 143 880	(S)	(S)	(S)	374 489	536 937	697 705	1 102 351	955 545	843 230	2 506 810
Value added†† -----	4 349 314	(S)	(S)	(S)	225 144	324 453	420 263	670 915	573 947	497 658	1 556 799
Cost of materials, components, supplies, and fuels -----	3 012 843	(S)	(S)	(S)	156 532	219 839	294 577	469 615	406 198	376 669	1 040 061
Cost of construction work subcontracted to others -----	2 558 986	(S)	(S)	(S)	35 123	57 618	108 713	253 741	293 351	281 689	1 520 597
Rental cost for machinery, equipment, and buildings -----	153 966	(S)	(S)	(S)	4 249	9 272	13 369	19 713	16 934	18 674	70 086
Capital expenditures, other than land -----	176 948	(S)	(S)	(S)	10 699	21 741	20 023	28 276	25 475	20 008	47 171
End-of-year gross book value of depreciable assets -----	1 495 639	(S)	(S)	(S)	86 973	138 478	148 567	189 809	198 153	177 784	522 011
1982											
All employees** -----	73 461	1 355	1 597	3 697	9 273	6 695	8 521	10 145	7 606	7 222	17 347
Value of construction work ¹ -----	5 826 218	13 584	35 093	123 956	398 096	359 799	535 732	753 435	676 793	751 351	2 178 378
Value added†† -----	2 562 920	7 757	19 350	65 428	210 396	187 388	278 846	377 274	304 994	329 067	782 417
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	(S)	(S)	(S)	5	5	4	2	2	1	(W)
Net value of construction work† -----	1	(S)	(S)	(S)	4	5	5	3	3	3	1
Capital expenditures, other than land -----	3	(S)	(S)	(S)	13	15	10	11	8	5	1

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	9 702 867	6 278 649	2 128 830	917 073	1	1	1	2
Building construction	6 809 472	4 703 693	1 434 473	605 648	1	2	2	2
Single-family houses	2 159 231	1 607 502	373 926	177 802	3	3	5	5
Single-family houses, detached	1 789 303	1 296 137	336 377	156 788	3	4	5	5
Single-family houses, attached	369 928	311 365	37 549	21 014	7	7	17	13
Apartment buildings with two or more apartments	539 222	430 436	67 938	40 847	7	8	3	7
Other residential buildings, including hotels and motels	197 032	143 324	36 106	17 601	4	5	11	9
Hotels and motels	146 412	113 241	22 440	10 731	4	5	5	5
Other residential buildings, excluding hotels and motels	50 620	30 083	13 666	6 870	12	10	27	19
Office buildings	1 077 058	747 450	242 781	86 826	1	1	2	3
Other commercial buildings such as stores, restaurants, and automobile service stations	842 817	509 578	250 738	82 501	2	2	4	4
Industrial buildings and warehouses	923 273	627 289	181 163	114 821	2	3	3	3
Industrial buildings	671 451	443 684	135 413	92 354	2	2	3	3
Warehouses	251 822	183 605	45 750	22 467	5	6	8	5
Religious buildings	116 853	58 912	47 041	10 900	4	3	6	8
Educational buildings	286 353	180 493	81 704	24 155	2	2	5	7
Hospitals and institutional buildings	437 969	295 015	119 225	23 728	2	2	3	4
Farm buildings	69 333	43 504	14 091	11 737	10	10	26	15
Amusement, social, and recreational buildings	42 768	25 398	11 668	5 701	6	7	11	5
Other nonresidential buildings	51 905	34 792	8 092	9 029	9	9	26	16
Land development for buildings	65 658	(NA)	(NA)	(NA)	11	(NA)	(NA)	(NA)
Nonbuilding construction	2 580 739	1 574 955	694 357	311 426	1	1	2	3
Highways, streets, and related facilities	1 032 781	530 120	331 503	171 157	1	2	2	4
Outdoor swimming pools	21 459	17 412	(S)	(S)	38	35	(S)	(S)
Parking areas including private driveways	86 509	59 857	13 324	13 327	8	10	9	18
Bridges, tunnels, and elevated highways	214 279	168 338	23 709	22 230	4	3	17	1
Conservation and development construction	27 199	22 426	*2 396	*2 376	16	15	48	46
Power and communication transmission lines, towers, and related facilities	123 852	67 441	43 721	12 689	7	8	14	11
Sewers, water mains, and related facilities	372 159	313 629	39 562	18 967	3	2	11	12
Sewers, sewer lines, and related facilities	230 858	192 528	28 522	9 807	3	2	10	13
Water mains and related facilities	141 301	121 101	11 040	9 160	5	4	14	19
Pipeline, other than sewer or water lines	53 129	38 142	(D)	(D)	5	5	(D)	(D)
Heavy industrial facilities	204 096	113 846	61 668	28 581	2	(W)	1	16
Blast furnaces, petroleum refineries, and chemical complexes	91 804	34 160	38 359	19 284	5	(W)	(W)	23
Power plants	112 292	79 686	23 309	9 297	1	(W)	2	3
Sewage treatment and water treatment plants	150 225	102 196	44 472	3 556	3	4	2	13
Sewage treatment plants	122 179	82 342	37 897	1 939	4	5	2	17
Water treatment plants	28 046	19 854	6 575	1 617	1	1	1	12
Earthmoving, nonbuilding	76 312	71 012	4 403	896	8	8	5	23
Other nonbuilding construction	218 739	70 536	121 425	26 789	9	10	28	20
Construction work, n.s.k.	312 655	(NA)	(NA)	(NA)	6	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	5 826 218	4 662 892	(NA)	1 163 326	1	1	(NA)	1
Building construction	3 880 189	3 179 556	(NA)	700 632	1	1	(NA)	1
Single-family houses	989 020	787 504	(NA)	201 515	2	2	(NA)	4
Single-family houses, detached	763 576	582 691	(NA)	180 885	2	3	(NA)	3
Single-family houses, attached	225 443	204 812	(NA)	20 630	3	3	(NA)	7
Apartment buildings with two or more apartments	235 840	201 006	(NA)	34 833	2	3	(NA)	6
Other residential buildings, including hotels and motels	122 403	105 167	(NA)	17 236	1	1	(NA)	4
Hotels and motels	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Other residential buildings, excluding hotels and motels	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Office buildings	849 467	727 504	(NA)	121 962	1	(W)	(NA)	4
Other commercial buildings such as stores, restaurants, and automobile service stations	265 881	194 190	(NA)	71 691	2	3	(NA)	3
Industrial buildings and warehouses	751 030	601 550	(NA)	149 479	1	1	(NA)	2
Industrial buildings	549 879	422 877	(NA)	127 002	1	1	(NA)	2
Warehouses	201 150	178 673	(NA)	22 477	3	3	(NA)	4
Religious buildings	49 856	35 607	(NA)	14 248	3	3	(NA)	7
Educational buildings	162 306	130 526	(NA)	31 780	2	2	(NA)	5
Hospitals and institutional buildings	257 172	228 885	(NA)	28 287	1	1	(NA)	3
Farm buildings	130 366	110 058	(NA)	20 308	5	6	(NA)	10
Amusement, social, and recreational buildings	40 299	36 496	(NA)	3 803	6	7	(NA)	8
Other nonresidential buildings	26 549	21 063	(NA)	5 490	8	7	(NA)	18
Nonbuilding construction	1 671 274	1 260 452	(NA)	410 821	1	1	(NA)	2
Highways, streets, and related facilities	660 947	408 871	(NA)	252 075	2	2	(NA)	3
Bridges, tunnels, and elevated highways	89 579	71 690	(NA)	17 888	1	(W)	(NA)	4
Conservation and development construction	39 331	33 621	(NA)	5 710	7	8	(NA)	10
Power and communication transmission lines, towers, and related facilities	49 482	37 360	(NA)	12 122	6	8	(NA)	8
Sewers, water mains, and related facilities	220 112	181 804	(NA)	38 308	3	3	(NA)	5
Sewers, sewer lines, and related facilities	130 849	112 528	(NA)	18 321	3	3	(NA)	8
Water mains and related facilities	89 263	69 276	(NA)	19 986	5	5	(NA)	5
Pipeline, other than sewer or water lines	37 780	30 226	(NA)	7 554	6	8	(NA)	2
Heavy industrial facilities	183 146	167 200	(NA)	15 946	1	(W)	(NA)	3
Blast furnaces, petroleum refineries, and chemical complexes	20 043	16 598	(NA)	3 445	5	3	(NA)	16
Power plants	163 102	150 601	(NA)	12 501	(W)	(W)	(NA)	(W)
Power plants, nuclear	21 062	(D)	(NA)	(D)	(W)	(D)	(NA)	(D)
Power plants, except nuclear	142 040	(D)	(NA)	(D)	(W)	(D)	(NA)	(D)
Sewage treatment and water treatment plants	176 245	152 241	(NA)	24 003	1	1	(NA)	1
Sewage treatment plants	121 824	(D)	(NA)	(D)	2	(D)	(NA)	(D)
Water treatment plants	54 420	(D)	(NA)	(D)	2	(D)	(NA)	(D)
Other nonbuilding construction	214 652	177 439	(NA)	37 215	10	5	(NA)	29
Construction work, n.s.k.	274 754	222 882	(NA)	51 871	3	3	(NA)	4

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction Industries and land subdividers and developers	9 684	66 237	115 018	52 977	21 873	69 100	29 711
15, 16, 17	Construction Industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses	1 681	5 173	7 625	4 507	1 547	5 343	1 981
1522	Other residential buildings	109	726	1 466	643	323	734	363
1531	Operative builders	270	1 001	1 687	905	384	1 075	449
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses	102	1 216	2 109	1 071	451	1 235	517
1542	Nonresidential buildings, n.e.c.	531	6 025	10 254	4 950	2 126	5 782	2 456
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction	269	6 668	12 588	3 355	1 458	7 752	3 539
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction	17	1 159	2 243	972	437	1 188	628
1623	Water, sewer, and utility lines	228	2 825	5 479	1 536	659	3 159	1 507
1629	Heavy construction, n.e.c.	281	2 114	4 088	1 418	576	2 305	1 142
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning	1 192	8 496	15 567	7 841	3 461	8 634	3 899
1721	Painting and paper hanging	413	2 310	3 691	1 933	739	2 426	904
1731	Electrical work	945	6 823	12 243	6 422	2 825	6 607	2 974
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework	438	2 455	3 739	1 841	576	2 508	984
1742	Plastering, drywall, and insulation work ..	329	2 510	4 329	2 390	982	2 673	1 125
1743	Terrazzo, tile, marble, and mosaic work ..	72	510	792	537	193	499	196
175	Carpentry and floor work:							
1751	Carpentry	709	3 090	5 016	2 570	1 048	3 202	1 250
1752	Floor laying and other floor work	120	711	1 164	708	279	733	289
1761	Roofing, siding, and sheet metal work	381	2 687	4 346	2 182	907	2 825	1 077
1771	Concrete work	549	3 412	5 742	1 905	727	3 834	1 617
1781	Water well drilling	116	443	948	407	202	458	239
179	Miscellaneous special trade contractors:							
1791	Structural steel erection	75	1 169	1 960	1 104	466	1 180	490
1793	Glass and glazing work	69	557	954	522	221	590	239
1794	Excavation work	273	1 348	2 480	969	390	1 430	668
1795	Wrecking and demolition work	6	*101	*189	54	21	*134	*68
1796	Installing building equipment, n.e.c.	66	772	1 324	755	317	705	313
1799	Special trade contractors, n.e.c.	351	1 863	2 888	1 413	521	2 033	767
6552	Land subdividers and developers, n.e.c. ...	78	(S)	(S)	(S)	(S)	(S)	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
76 182	34 527	66 690	28 906	1	1	1	1	1	1	1	1	1	1	15, 16, 17
														15
5 897 792	2 213 412	4 945 737	1 882 366	5 10	6 11	5 10	7 12	5 10	6 11	5 10	6 11	5 9	7 12	152 1521 1522
1 086	476	939	377	8	10	8	10	9	11	8	11	9	11	1531
														154
1 453 6 813	638 2 916	1 105 6 553	502 2 754	6 3	9 3	8 3	11 3	6 3	10 3	7 3	9 3	5 3	10 4	1541 1542
														16
9 057	4 750	6 508	2 840	2	3	2	3	2	3	2	3	3	3	1611
														162 1622
1 438 3 608 2 545	690 1 908 1 341	1 038 2 999 2 190	486 1 404 1 028	2 3 4	4 4 6	1 5 4	2 6 6	2 3 5	5 5 7	2 3 5	5 4 7	2 3 5	4 5 7	1623 1629
														17
9 038	4 199	8 472	4 006	2	2	2	2	2	2	2	2	2	3	1711
2 665	1 116	2 217	931	5	6	7	10	6	6	6	8	6	8	1721
7 345	3 317	6 919	3 126	2	2	2	3	2	3	2	3	2	3	1731
														174
2 904 2 532 529	1 159 1 129 213	2 574 2 444 473	1 019 1 091 189	5 4 9	7 6 14	7 5 10	8 6 15	6 5 9	8 7 13	5 4 8	7 6 14	5 5 8	7 8 15	1741 1742 1743
3 430 696	1 483 290	3 163 707	1 233 304	7 7	9 10	8 8	10 12	7 9	9 11	7 5	9 7	7 8	9 10	175 1751 1752
2 992	1 268	2 749	1 093	4	6	5	7	5	6	4	5	6	8	1761
4 340	1 934	3 570	1 463	6	8	6	9	6	8	6	9	7	9	1771
466	261	443	244	13	16	13	17	12	16	12	15	14	17	1781
														179
1 246 580 1 578 *156 772 2 158	503 254 784 *69 325 843	1 145 537 1 413 *58 856 1 864	500 239 636 *31 368 757	3 7 6 53 4 7	5 10 8 67 4 9	3 6 7 19 3 7	4 10 8 28 3 10	4 7 7 63 3 8	6 11 9 74 3 10	4 8 6 53 5 7	6 12 8 71 4 10	4 7 6 65 3 7	4 10 9 72 6 9	1791 1793 1794 1795 1796 1799
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	8.7	25.0	1 736.5	146.5	.216	.311	.264	.016
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	4.0	17.6	1 474.0	133.9	.169	.351	.289	.008
1522	Other residential buildings	9.4	30.9	2 019.3	382.9	.114	.230	.541	.006
1531	Operative builders	7.5	27.2	1 685.3	711.3	.077	.273	.435	.003
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	15.7	25.4	1 734.4	237.7	.141	.298	.328	.017
1542	Nonresidential buildings, n.e.c.	14.9	25.1	1 701.9	279.1	.118	.192	.647	.006
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	29.3	28.7	1 887.8	183.7	.184	.309	.206	.042
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	83.1	29.2	1 935.3	133.5	.267	(D)	.149	.024
1623	Water, sewer, and utility lines	15.0	27.1	1 939.5	158.4	.208	.314	.190	.029
1629	Heavy construction, n.e.c.	8.7	26.2	1 933.8	118.0	.257	.384	.176	.031
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	9.4	28.3	1 832.3	123.3	.304	.378	.119	.011
1721	Painting and paper hanging	6.5	21.2	1 597.8	62.2	.398	.232	.063	.012
1731	Electrical work	9.1	29.1	1 794.4	100.8	.363	.387	.022	.011
174	Masonry, stone work, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	6.4	21.2	1 523.0	74.7	.323	.378	.033	.008
1742	Plastering, drywall, and insulation work	9.3	24.5	1 724.7	107.0	.280	.322	.137	.010
1743	Terrazzo, tile, marble, and mosaic work	8.9	25.0	1 552.9	101.0	.311	.412	.047	.007
175	Carpentry and floor work:								
1751	Carpentry	5.1	17.4	1 623.3	64.1	.319	.366	.117	.010
1752	Floor laying and other floor work	7.6	22.1	1 637.1	98.3	.287	.363	.033	.007
1761	Roofing, siding, and sheet metal work	9.1	22.3	1 617.4	100.8	.285	.422	.074	.015
1771	Concrete work	7.5	22.0	1 682.9	99.6	.267	.360	.066	.011
1781	Water well drilling	4.8	20.1	2 140.0	107.4	.234	.436	.028	.021
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	18.7	29.3	1 676.6	108.5	.324	.322	.037	.015
1793	Glass and glazing work	11.4	23.8	1 712.7	123.5	.273	.513	.035	.022
1794	Excavation work	6.2	27.1	1 839.8	136.7	.249	.247	.092	.041
1795	Wrecking and demolition work	*19.5	*12.3	*1 871.3	*61.3	.232	.252	.059	(S)
1796	Installing building equipment, n.e.c.	14.8	29.8	1 715.0	114.3	.329	.327	.029	.013
1799	Special trade contractors, n.e.c.	6.9	18.5	1 550.2	78.8	.304	.360	.052	.018
6552	Land subdividers and developers, n.e.c.	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	MINNEAPOLIS-ST. PAUL, MN-WI MSA											
	Construction industries and land subdividers and developers -----	5 428	59 209	1 595 947	7 427 313	5 286 727	3 265 100	2 176 789	2 140 586	110 882	1	1
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses	933	4 050	81 449	493 007	335 176	187 096	161 257	157 831	6 011	5	6
1522	Other residential buildings	80	892	28 332	266 913	123 003	65 473	61 048	143 911	1 485	8	7
1531	Operative builders	228	1 746	48 770	640 860	363 433	190 923	179 429	277 427	5 106	7	8
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses	64	1 090	28 744	222 387	150 103	86 571	64 595	72 284	601	8	5
1542	Nonresidential buildings, n.e.c.	316	6 105	159 178	1 413 330	444 302	229 234	251 609	969 028	8 916	3	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction	81	4 261	132 436	750 528	579 960	406 645	193 930	170 567	15 625	2	1
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction	5	472	14 251	45 754	40 912	16 221	24 691	*4 842	*232	2	27
1623	Water, sewer, and utility lines	146	2 399	66 969	318 718	258 540	161 556	98 251	60 178	11 950	4	3
1629	Heavy construction, n.e.c.	77	1 558	47 508	175 607	136 207	68 877	68 268	39 400	5 467	3	3
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning	594	8 276	256 701	819 778	716 621	432 192	295 096	103 157	10 550	2	2
1721	Painting and paper hanging	283	2 068	45 020	118 753	110 785	84 474	26 943	7 968	1 950	6	4
1731	Electrical work	445	6 199	199 806	518 149	508 278	318 933	196 097	9 871	6 697	2	1
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework	250	1 944	45 753	142 066	136 779	82 558	(D)	5 287	2 239	5	4
1742	Plastering, drywall, and insulation work	202	2 506	65 428	216 430	192 792	128 570	(D)	23 638	3 158	4	3
1743	Terrazzo, tile, marble, and mosaic work	62	579	14 737	46 203	43 835	32 099	18 686	2 368	710	10	7
175	Carpentry and floor work:											
1751	Carpentry	389	2 649	49 532	147 421	129 800	80 240	53 533	17 621	1 620	8	6
1752	Floor laying and other floorwork	82	789	18 083	63 519	61 293	40 183	22 503	2 225	408	8	5
1761	Roofing, siding, and sheet metal work	240	2 194	52 967	177 409	164 460	97 867	72 399	12 949	2 448	5	5
1771	Concrete work	315	2 903	71 656	261 884	243 621	158 576	88 747	18 262	5 027	6	7
1781	Water well drilling	52	308	6 496	25 305	24 292	15 835	8 937	*1 013	2 736	15	12
179	Miscellaneous special trade contractors:											
1791	Structural steel erection	53	1 256	38 645	110 877	107 215	76 867	31 759	3 662	1 428	3	8
1793	Glass and glazing work	55	685	17 034	63 294	60 914	34 330	32 334	2 380	760	8	4
1794	Excavation work	139	1 351	38 667	155 802	140 035	105 433	37 440	15 767	13 201	6	5
1795	Wrecking and demolition work	4	*101	*1 171	*5 229	*4 922	*3 470	(S)	307	-	62	64
1796	Installing building equipment, n.e.c.	40	784	24 121	71 878	69 688	47 581	22 992	2 190	399	3	2
1799	Special trade contractors, n.e.c.	236	1 779	36 178	118 982	113 196	86 164	41 324	5 786	2 003	9	9
6552	Land subdividers and developers, n.e.c.	57	266	6 315	37 231	26 564	27 131	578	10 667	158	31	19

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Missouri

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SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Missouri. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the SIC Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 46,787 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$12.4 billion in total value of business done.

Most of the 46,787 construction establishments were small. Of the total, 35,330 were nonemployers, and over half of the employer establishments had less than 5 employees. The 4,922 construction establishments with 5 employees or more, while representing only 11 percent of all establishments, accounted for more than 79 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$11.0 billion of total dollar value of business done. Of this amount, \$10.5 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$2.8 billion, leaving net value of construction work of \$7.7 billion. In addition, these establishments paid out \$3.4 billion for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$4.9 billion. (See Introduction and appendixes for explanation of terms.)

There were 11,457 establishments with total employment averaging 105,191 during the year. Total payroll for 1987 was \$2.4 billion. Total hours worked by construction workers during the year were 138 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 35,330 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$1.5 billion. Most of these establishments, about 75 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

1987
1982

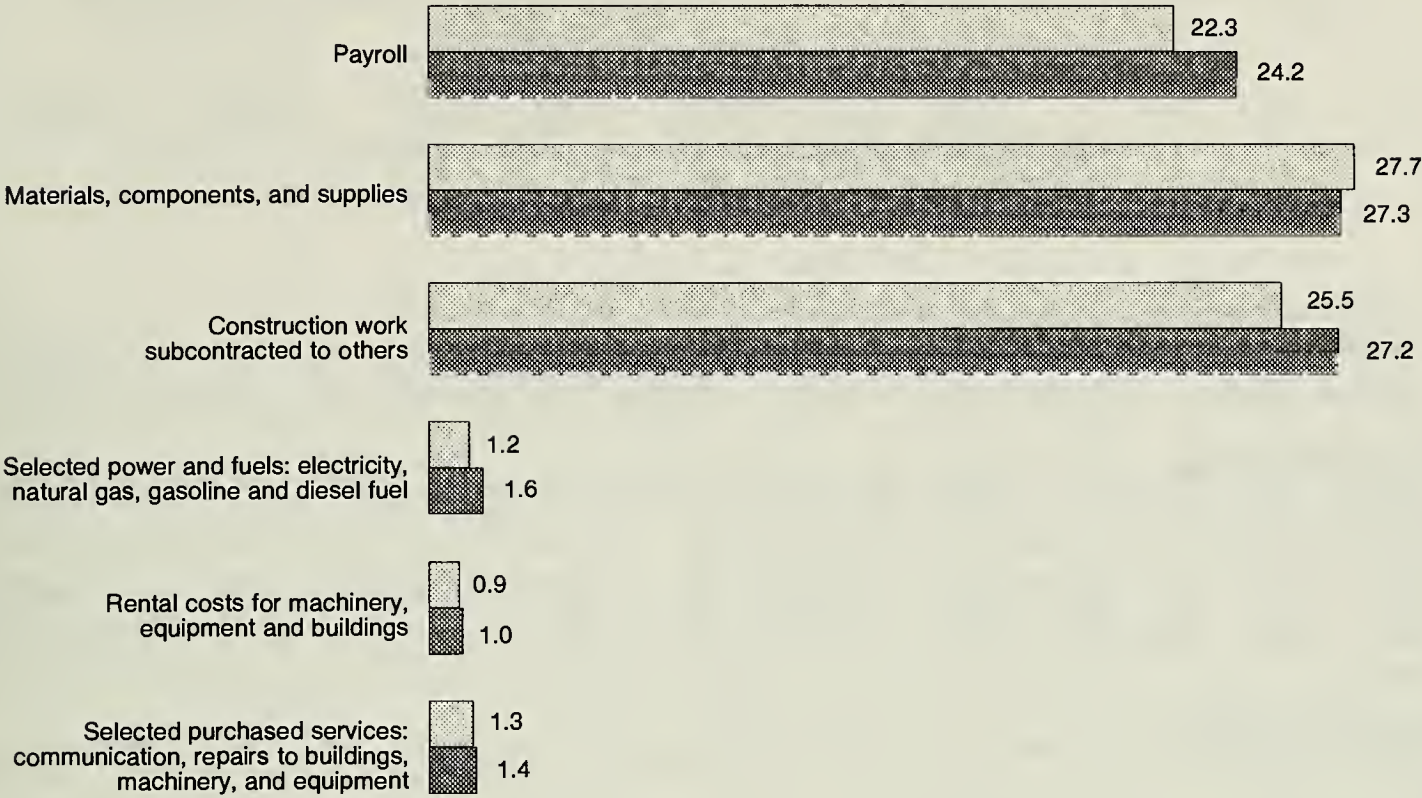


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

1987
1982

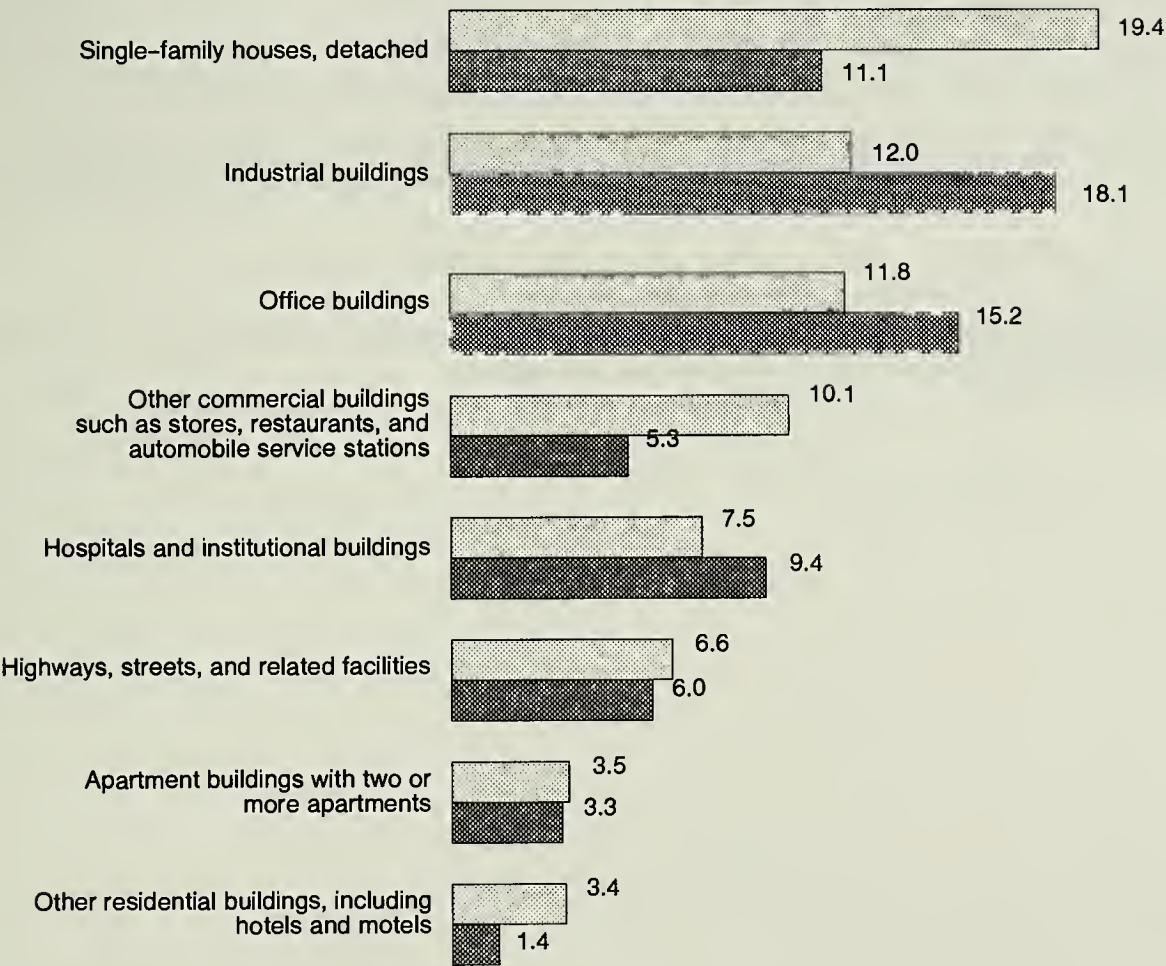


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done	Number	Proprie- tors and working partners	Dollar value of business done	Number	Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
													A	B
15, 16, 17	1987													
	Construction Industries and land subdividers and developers -----	46 787	38 010	105 191	12 415 405	35 330	34 825	1 454 682	11 457	3 185	105 191	10 960 723	1	1
	Construction Industries -----	45 768	37 194	104 794	12 117 006	34 436	34 064	1 205 045	11 332	3 130	104 794	10 911 961	1	1
	Building construction—General contractors and operative builders ----	10 816	7 965	29 102	5 573 235	7 381	7 031	503 545	3 435	934	29 102	5 069 690	1	1
	Heavy construction other than building construction— contractors-----	1 329	870	13 188	1 480 102	513	501	30 918	816	169	13 188	1 449 184	2	1
	Special trade contractors -----	33 623	28 559	62 504	5 083 669	26 542	26 532	670 582	7 081	2 027	62 504	4 393 087	1	1
	Plumbing, heating, and air-conditioning --	3 741	2 614	13 070	1 311 794	2 321	2 313	89 952	1 420	301	13 070	1 221 842	2	1
	Electrical work-----	2 344	1 748	9 164	745 266	1 536	1 530	39 542	808	218	9 164	705 724	2	2
	Land subdividers and developers, n.e.c.²-----	1 009	806	385	298 386	894	761	249 637	115	45	385	48 749	14	20
	1982													
15, 16, 17	Construction Industries and land subdividers and developers -----	31 105	24 853	84 620	7 291 702	21 990	21 803	653 916	9 115	3 050	84 620	6 637 786	1	1
	Construction Industries -----	30 593	24 516	83 991	7 175 320	21 586	21 471	580 683	9 007	3 045	83 991	6 594 637	1	1
	Building construction—General contractors and operative builders ----	6 771	4 965	23 297	2 966 656	4 377	4 243	215 784	2 394	722	23 297	2 750 872	2	1
	Heavy construction other than building construction— contractors-----	1 337	834	10 609	990 278	756	754	23 163	581	80	10 609	967 115	2	1
	Special trade contractors -----	22 485	18 717	50 085	3 218 386	16 453	16 474	341 736	6 032	2 243	50 085	2 876 650	1	1
	Plumbing, heating, and air-conditioning --	2 696	1 814	10 404	759 521	1 451	1 455	50 304	1 245	359	10 404	709 217	2	1
	Electrical work-----	1 405	990	8 971	657 814	817	811	18 263	588	179	8 971	639 551	1	1
	Land subdividers and developers, n.e.c.²-----	506	334	(S)	(S)	404	332	73 233	102	2	(S)	(S)	(S)	(S)

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State -----	46 787	38 010	105 191	12 415 405	35 330	34 825	1 454 682	11 457	3 185	105 191	10 960 723	1	1
\$10,000,000 or more -----	151	7	23 093	4 509 084	-	-	-	151	7	23 093	4 509 084	(W)	(W)
\$5,000,000 to \$9,999,999 -----	178	11	9 843	1 243 915	9	(D)	60 744	169	(D)	9 843	1 183 171	1	1
\$2,500,000 to \$4,999,999 -----	404	29	12 727	1 369 210	24	30	81 659	380	10	12 727	1 287 551	1	3
\$1,000,000 to \$2,499,999 -----	1 132	192	17 422	1 772 102	93	77	147 830	1 039	175	17 422	1 624 272	2	4
\$500,000 to \$999,999 -----	1 673	395	14 100	1 161 760	204	168	139 645	1 469	227	14 100	1 022 115	4	4
\$250,000 to \$499,999 -----	2 347	1 061	11 176	828 478	576	511	195 635	1 771	550	11 176	632 843	5	5
\$100,000 to \$249,999 -----	5 193	2 992	11 573	830 375	1 870	1 797	286 821	3 323	1 195	11 573	543 554	4	3
\$50,000 to \$99,999 -----	4 489	3 493	(S)	(S)	2 918	2 864	204 410	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999 -----	5 185	4 502	(S)	(S)	4 251	4 215	150 298	(S)	(S)	(S)	(S)	(S)	(S)
Less than \$25,000 -----	(S)	(S)	(S)	(S)	25 385	25 163	187 640	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	7 435	7 365	120 188	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	5 628	5 578	40 905	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	4 647	4 598	16 958	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000 -----	(NA)	(NA)	(NA)	(NA)	7 675	7 622	9 589	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State -----	31 105	24 853	84 620	7 291 702	21 990	21 803	653 916	9 115	3 050	84 620	6 637 786	1	1
\$10,000,000 or more -----	75	3	20 039	(D)	1	-	(D)	74	3	20 039	(D)	(W)	(D)
\$5,000,000 to \$9,999,999 -----	132	8	8 895	3 591 187	5	6	46 299	127	2	8 895	3 544 888	(W)	(W)
\$2,500,000 to \$4,999,999 -----	223	12	8 917	752 529	6	5	20 561	217	7	8 917	731 968	(W)	(W)
\$1,000,000 to \$2,499,999 -----	595	31	12 831	914 376	23	20	34 209	572	*11	12 831	880 167	2	3
\$500,000 to \$999,999 -----	851	98	9 738	599 686	54	39	38 324	797	59	9 738	561 362	5	4
\$250,000 to \$499,999 -----	1 301	415	7 929	450 935	200	167	69 094	1 101	248	7 929	381 841	6	5
\$100,000 to \$249,999 -----	3 126	1 672	9 009	488 129	844	821	125 472	2 282	851	9 009	362 657	5	4
\$50,000 to \$99,999 -----	3 281	2 369	3 994	232 359	1 599	1 594	109 496	1 682	775	3 994	122 863	5	4
\$25,000 to \$49,999 -----	3 601	3 116	1 715	127 927	2 636	2 649	91 795	965	467	1 715	36 132	8	6
Less than \$25,000 -----	17 919	17 127	1 552	134 572	16 622	16 502	118 666	1 297	625	1 552	15 906	6	6
\$10,000 to \$24,999 -----	(NA)	(NA)	(NA)	(NA)	4 840	4 814	74 514	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999 -----	(NA)	(NA)	(NA)	(NA)	4 171	4 129	28 226	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999 -----	(NA)	(NA)	(NA)	(NA)	4 428	4 407	12 743	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500 -----	(NA)	(NA)	(NA)	(NA)	3 183	3 152	3 183	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
15, 16, 17	Construction industries and land subdividers and developers -----	11 457	105 191	83 292	2 444 120	1 796 436	137 526	10 501 073	7 702 288
	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	1 827	8 054	6 378	125 870	91 783	9 887	675 705	509 915
1522	Other residential buildings -----	196	1 271	1 016	22 205	15 618	1 564	205 348	107 055
1531	Operative builders -----	487	3 558	2 231	88 587	41 310	3 443	790 402	(D)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	168	4 963	3 757	144 303	101 394	7 223	962 729	516 763
1542	Nonresidential buildings, n.e.c. -----	757	11 256	8 235	317 523	213 609	15 203	2 094 156	925 503
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	267	6 123	5 085	164 032	126 742	8 660	769 810	629 708
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	58	1 457	1 235	28 169	21 620	1 944	140 984	115 676
1623	Water, sewer, and utility lines -----	182	2 966	2 507	69 083	51 247	4 368	272 319	241 960
1629	Heavy construction, n.e.c. -----	309	2 642	2 108	55 534	41 043	3 114	239 753	187 576
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	1 420	13 070	9 722	350 713	257 666	17 604	1 208 907	1 007 346
1721	Painting and paper hanging -----	671	4 683	3 997	87 312	71 120	5 904	203 370	196 659
1731	Electrical work -----	808	9 164	7 076	249 850	183 620	12 162	698 478	681 117
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	545	4 886	4 387	90 076	75 573	5 474	220 327	215 596
1742	Plastering, drywall, and insulation work -----	375	4 652	3 998	110 693	90 212	6 335	300 349	280 969
1743	Terrazzo, tile, marble, and mosaic work -----	59	467	365	11 288	8 690	674	27 273	26 906
175	Carpentry and floor work:								
1751	Carpentry -----	736	4 298	3 708	82 306	67 841	5 850	231 853	212 541
1752	Floor laying and other floor work -----	130	1 140	848	26 350	18 164	1 315	86 718	82 201
1761	Roofing, siding, and sheet metal work -----	585	5 390	4 354	110 754	83 202	6 826	364 603	337 586
1771	Concrete work -----	694	6 306	5 400	123 760	98 748	8 491	400 481	381 483
1781	Water well drilling -----	63	297	235	3 820	3 204	475	16 457	16 134
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	48	1 031	879	24 825	19 889	1 352	64 911	63 122
1793	Glass and glazing work -----	65	620	439	17 088	10 875	814	54 134	51 855
1794	Excavation work -----	353	2 186	1 830	43 967	33 394	3 012	156 413	145 563
1795	Wrecking and demolition work -----	13	107	85	2 636	2 110	175	12 822	(D)
1796	Installing building equipment, n.e.c. -----	62	822	638	24 017	19 196	1 314	65 086	63 574
1799	Special trade contractors, n.e.c. -----	454	3 385	2 683	62 180	47 386	4 238	207 505	187 741
6552	Land subdividers and developers, n.e.c. -----	115	385	82	7 167	1 170	93	30 169	23 201

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
4 867 062	3 173 555	2 798 785	114 690	152 912	1 379 767	84 620	6 450 207	2 878 793	1	1	3	15, 16, 17
												15
302 189 46 160	223 225 64 994	165 789 98 292	5 025 799	9 941 1 630	73 657 9 987	4 843 919	277 164 80 112	116 922 19 348	4 13	4 17	13 40	152 1521 1522
212 954	295 743	(D)	2 157	4 699	86 096	1 910	207 486	71 314	5	(D)	20	1531
358 337 677 353	180 625 417 405	445 966 1 168 653	5 827 10 469	9 355 11 542	73 204 130 789	6 288 9 337	861 383 1 278 858	258 877 288 269	4 3	2 2	3 9	154 1541 1542
												16
396 673	248 544	140 102	18 316	23 934	260 818	3 583	326 707	144 531	3	2	7	1611
52 901 156 472 131 140	(D) 87 243 60 463	25 308 30 358 52 177	1 811 5 491 6 966	3 767 12 245 7 196	42 043 82 031 106 691	623 3 485 2 918	51 874 229 767 316 569	17 626 152 514 140 471	8 7 5	6 3 5	11 3 15	162 1622 1623 1629
												17
569 311	450 969	201 561	15 111	14 553	105 674	10 404	699 100	378 759	2	2	9	1711
154 850	43 618	6 711	2 323	3 208	23 283	3 295	120 709	91 909	5	4	13	1721
438 183	250 180	17 361	7 353	9 734	64 865	8 971	607 165	353 381	2	2	11	1731
149 744 184 789 16 287	67 320 105 940 (D)	4 731 19 380 366	1 329 2 787 416	4 237 2 114 510	26 515 18 631 2 554	3 322 4 382 287	116 525 238 539 12 809	84 799 144 082 7 570	4 3 15	4 3 10	13 14 21	174 1741 1742 1743
129 783 48 736	87 274 38 492	19 312 4 516	2 114 886	2 801 681	19 012 5 103	2 788 785	116 522 39 500	64 688 21 097	5 5	6 6	15 14	175 1751 1752
214 323	127 749	27 017	4 633	5 654	46 456	4 167	217 519	116 722	4	4	12	1761
233 113	154 257	18 997	6 305	8 268	65 484	3 509	174 482	98 401	4	3	9	1771
7 082	9 140	323	45	921	14 733	317	23 431	12 574	11	14	32	1781
46 720 28 267 109 122 8 646 44 696 130 050	17 027 27 133 37 583 1 295 20 524 69 771	1 788 *2 279 10 849 (D) 1 512 19 764	1 719 1 100 5 848 884 564 4 267	775 671 8 432 507 657 4 159	5 815 3 297 70 013 2 176 3 092 25 475	(S) 677 3 085 82 978 2 044	(S) 40 796 169 418 5 534 68 513 82 871	(S) 22 792 118 918 3 223 46 628 48 713	4 6 8 10 7 6	2 8 6 (D) 5 7	13 10 16 36 37 16	179 1791 1793 1794 1795 1796 1799
19 171	7 642	6 968	138	710	12 257	(S)	(S)	(S)	14	22	7	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	11 457	9 115	10 545	9 498	1	2	2	3
Proprietors and working partners	3 185	3 050	6 219	5 729	4	3	4	4
All employees**	105 191	84 620	89 395	81 432	1	1	1	2
Construction workers:								
March	76 086	61 765	66 041	59 637	1	1	1	2
May	84 933	70 297	77 190	69 031	1	1	2	2
August	89 520	72 314	81 750	72 974	1	1	1	2
November	82 630	66 531	75 878	65 730	1	1	1	2
Average	83 292	68 595	75 275	67 750	1	1	1	2
Other employees:								
March	21 769	15 972	13 481	13 091	1	1	1	4
May	21 905	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
August	22 089	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
November	21 832	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Average	21 898	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	30 526	22 446	(NA)	(NA)	1	1	(NA)	(NA)
April to June	35 435	26 808	(NA)	(NA)	1	1	(NA)	(NA)
July to September	37 713	28 381	(NA)	(NA)	1	1	(NA)	(NA)
October to December	33 850	25 327	(NA)	(NA)	1	1	(NA)	(NA)
Total hours worked	137 526	102 964	(NA)	(NA)	1	1	(NA)	(NA)
Payroll, all employees	2 444 120	1 608 657	1 174 773	816 272	(W)	1	1	1
Payroll, construction workers	1 796 436	1 236 615	936 178	657 166	1	1	1	1
Payroll, other employees	647 684	372 041	238 595	159 106	1	1	1	2
First quarter payroll, all employees	554 220	347 687	235 826	(NA)	1	1	1	(NA)
Employer costs for fringe benefits, all employees	590 724	274 897	217 641	(NA)	1	1	1	(NA)
Legally required expenditures	369 759	209 742	112 940	(NA)	1	1	1	(NA)
Voluntary expenditures	220 965	65 154	104 701	(NA)	1	1	(W)	(NA)
Dollar value of business done	10 960 723	6 637 786	4 657 718	3 043 300	1	1	1	2
Value of construction work ¹	10 501 073	6 450 207	4 500 045	2 903 982	1	1	1	2
Value of construction work subcontracted in from others	2 500 649	1 517 490	1 120 704	687 792	2	1	1	2
Land receipts ²	121 319	35 764	(NA)	(NA)	6	8	(NA)	(NA)
Other business receipts	338 330	151 815	157 673	139 318	2	2	3	7
Net value of construction†	7 702 288	4 645 229	3 425 673	2 186 493	1	1	1	2
Value added††	4 867 062	2 878 793	2 062 343	1 363 013	1	1	1	2
Selected costs	5 972 341	3 723 228	2 540 577	1 613 731	1	1	1	2
Materials, components, and supplies ³	3 038 390	1 812 668	1 382 127	896 242	1	1	1	2
Construction work subcontracted to others	2 798 785	1 804 977	1 074 372	717 489	1	1	1	2
Selected power, fuels, and lubricants	135 165	105 582	84 077	(NA)	1	1	1	(NA)
Electricity	20 242	14 645	9 269	(NA)	2	2	2	(NA)
Natural gas	7 771	6 388	15 120	(NA)	4	3	1	(NA)
Gasoline and diesel fuel	98 700	76 869	49 461	(NA)	1	2	1	(NA)
On highway use	70 164	(NA)	(NA)	(NA)	1	(NA)	(NA)	(NA)
Off highway use	28 536	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	8 451	7 679	10 228	(NA)	4	3	3	(NA)
Rental cost for machinery, equipment, and buildings	114 690	65 942	46 314	(NA)	2	1	1	(NA)
For machinery and equipment	78 665	48 597	38 076	27 350	2	2	1	4
For buildings	36 025	17 344	8 238	(NA)	3	3	2	(NA)
Selected purchased services	138 161	90 661	77 245	(NA)	2	2	2	(NA)
Communication services	35 587	24 051	17 920	(NA)	2	2	2	(NA)
Repairs to buildings and other structures	7 896	5 901	3 400	(NA)	5	2	5	(NA)
Repairs to machinery and equipment	94 677	60 708	55 925	(NA)	2	2	2	(NA)
Ownership of construction projects:								
Value of construction work	10 501 073	6 450 207	4 500 045	2 903 982	1	1	1	2
Government owned	2 174 832	1 242 260	882 779	721 935	2	2	1	2
Federal	540 094	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
State and local	1 634 737	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Privately owned	8 326 241	5 207 946	3 617 267	2 182 047	1	1	1	2

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	1 321 453	1 128 035	3	2
Capital expenditures, other than land -----	152 912	105 534	3	2
New -----	111 495	75 954	3	2
Used -----	41 416	29 579	6	3
Retirements and disposition of depreciable assets -----	94 598	52 748	5	19
End-of-year gross book value of depreciable assets -----	1 379 767	1 180 821	2	1
Depreciation charges during year -----	157 741	146 328	2	2
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	294 898	195 234	9	3
Capital expenditures, other than land -----	21 051	17 856	8	5
New buildings and other structures -----	15 578	15 659	9	5
Used buildings and other structures -----	5 472	2 197	16	14
Retirements and disposition of depreciable assets -----	17 692	8 256	21	17
End-of-year gross book value of depreciable assets -----	298 257	204 835	8	3
Depreciation charges during year -----	20 186	18 791	8	5
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	1 026 555	932 801	2	2
Capital expenditures, other than land -----	131 860	87 677	3	2
New machinery and equipment, including automobiles and trucks -----	95 916	60 295	3	2
New automobiles and trucks, intended primarily for highway use -----	42 101	19 222	4	4
Used machinery and equipment, including automobiles and trucks -----	35 944	27 381	7	3
Retirements and disposition of depreciable assets -----	76 905	44 492	3	22
End-of-year gross book value of depreciable assets -----	1 081 510	975 986	2	1
Depreciation charges during year -----	137 555	127 536	2	2

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	11 457	1
Value of construction work	10 501 073	1
Establishments with inventories:		
Number	4 362	3
Value of construction work	5 089 014	2
Inventories ¹ :		
End of 1987, materials and supplies	174 476	17
End of 1986, materials and supplies	175 313	13
Establishments with no inventories:		
Number	5 260	3
Value of construction work	4 137 182	2
Establishments not reporting:		
Number	1 835	6
Value of construction work	1 274 877	4

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments -----	11 457	6 533	2 478	1 362	807	176	76	16	6	1
All employees** -----	105 191	13 542	15 939	18 056	23 405	11 711	10 731	5 666	6 137	(D)
Payroll, all employees -----	2 444 120	185 727	267 379	363 648	584 649	336 275	311 064	189 672	205 705	(D)
Construction worker hours (thousands) -----	137 526	16 523	19 291	21 701	31 531	16 090	14 968	8 621	8 799	(D)
Dollar value business done -----	10 960 723	1 144 653	1 184 658	1 387 795	2 437 598	1 521 785	1 996 879	(D)	1 287 354	(D)
Value of construction work ¹ -----	10 501 073	1 098 788	1 130 071	1 354 870	2 363 988	1 466 273	1 137 596	1 949 486	(D)	(D)
Net value of construction work† -----	7 702 288	870 613	921 541	1 109 508	1 708 557	1 051 762	846 211	593 840	600 254	(D)
Value added†† -----	4 867 062	482 663	534 029	683 931	1 074 145	666 093	891 997	(D)	534 203	(D)
Cost of materials, components, supplies, and fuels -----	3 173 556	403 620	415 928	447 571	685 079	429 446	334 664	457 246	(D)	(D)
Cost of construction work subcontracted to others -----	2 798 785	228 175	208 530	245 361	655 431	414 511	291 385	755 392	(D)	(D)
Rental cost for machinery, equipment, and buildings -----	114 690	10 266	13 036	18 869	25 887	21 453	12 661	12 515	(D)	(D)
Capital expenditures, other than land -----	152 912	19 829	17 991	27 573	31 517	22 885	11 132	12 226	9 757	(D)
End-of-year gross book value of depreciable assets -----	1 379 767	186 119	161 813	201 516	279 876	209 016	133 314	132 536	75 575	(D)
1982										
All employees** -----	84 620	11 744	11 041	12 409	16 934	9 454	8 215	4 590	4 479	5 754
Value of construction work ¹ -----	6 450 207	547 196	572 633	763 145	1 329 270	744 367	805 803	543 150	296 034	848 609
Value added†† -----	2 878 793	265 099	276 381	375 329	604 572	362 611	402 453	236 792	155 586	199 969
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees** -----	1	2	4	3	2	(W)	(W)	(W)	(W)	(D)
Net value of construction work† -----	1	4	4	3	1	(W)	(W)	(W)	(W)	(D)
Capital expenditures, other than land -----	3	9	12	9	5	2	(W)	(W)	(W)	(D)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments -----	11 457	(S)	(S)	(S)	3 323	1 771	1 469	1 039	380	169	151
All employees** -----	105 191	(S)	(S)	(S)	11 573	11 176	14 100	17 422	12 727	9 843	23 093
Payroll, all employees -----	2 444 120	(S)	(S)	(S)	150 077	179 393	270 734	400 681	335 145	288 894	777 334
Construction worker hours (thousands) -----	137 526	(S)	(S)	(S)	13 851	13 351	18 050	22 298	17 208	13 624	33 491
Dollar value of business done -----	10 960 723	(S)	(S)	(S)	543 554	632 843	1 022 115	1 624 272	1 287 551	1 183 171	4 509 084
Value of construction work ¹ -----	10 501 073	(S)	(S)	(S)	531 388	614 274	989 902	1 569 396	1 240 408	1 142 011	4 258 142
Net value of construction work† -----	7 702 288	(S)	(S)	(S)	481 867	549 591	837 035	1 291 097	992 356	875 910	2 529 856
Value added†† -----	4 867 062	(S)	(S)	(S)	287 492	330 447	512 912	772 599	639 462	536 763	1 698 103
Cost of materials, components, supplies, and fuels -----	3 173 556	(S)	(S)	(S)	202 725	231 414	344 061	552 877	384 055	364 180	1 037 407
Cost of construction work subcontracted to others -----	2 798 785	(S)	(S)	(S)	49 521	64 682	152 866	278 299	248 051	266 100	1 728 286
Rental cost for machinery, equipment, and buildings -----	114 690	(S)	(S)	(S)	7 157	6 838	14 679	18 256	14 152	16 042	35 932
Capital expenditures, other than land -----	152 912	(S)	(S)	(S)	13 496	15 061	19 181	23 799	19 721	18 175	40 037
End-of-year gross book value of depreciable assets -----	1 379 767	(S)	(S)	(S)	99 254	98 953	164 668	230 675	189 637	149 295	414 868
1982											
All employees** -----	84 620	1 552	1 715	3 994	9 009	7 929	9 738	12 831	8 917	8 895	20 039
Value of construction work ¹ -----	6 450 207	15 631	35 424	121 153	355 099	372 610	537 998	846 145	715 857	855 735	2 594 552
Value added†† -----	2 878 793	8 933	20 568	68 921	187 047	194 136	278 160	451 326	337 940	368 213	963 546
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	1	(S)	(S)	(S)	4	5	4	2	1	1	(W)
Net value of construction work† -----	1	(S)	(S)	(S)	4	5	4	3	2	1	(W)
Capital expenditures, other than land -----	3	(S)	(S)	(S)	12	13	12	7	7	4	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	10 501 073	7 001 958	2 104 815	1 028 725	1	1	1	2
Building construction	8 315 892	5 781 799	1 746 811	756 073	1	1	1	2
Single-family houses	2 281 804	1 727 313	327 306	227 184	2	3	4	5
Single-family houses, detached	2 034 970	1 536 381	294 199	204 390	2	3	5	5
Single-family houses, attached	246 833	190 932	33 106	22 794	5	6	15	10
Apartment buildings with two or more apartments	368 117	266 757	66 385	34 974	7	9	13	6
Other residential buildings, including hotels and motels	357 478	299 999	34 965	22 514	3	3	13	10
Hotels and motels	179 326	151 805	14 833	12 687	2	1	5	10
Other residential buildings, excluding hotels and motels	178 151	148 193	20 131	9 826	6	6	22	19
Office buildings	1 239 365	901 226	241 209	96 929	1	1	2	2
Other commercial buildings such as stores, restaurants, and automobile service stations	1 062 840	700 959	266 046	95 834	3	3	4	4
Industrial buildings and warehouses	1 563 155	1 027 283	373 755	162 116	1	1	2	2
Industrial buildings	1 258 228	806 619	314 858	136 750	1	1	1	2
Warehouses	304 926	220 663	58 897	25 366	3	3	7	5
Religious buildings	106 350	52 990	38 191	15 168	4	5	5	8
Educational buildings	315 869	178 627	103 161	34 080	3	3	5	6
Hospitals and institutional buildings	788 361	502 560	248 738	37 062	1	1	2	3
Farm buildings	51 585	36 480	4 509	10 596	6	7	16	11
Amusement, social, and recreational buildings	79 683	44 267	22 383	13 032	6	3	11	21
Other nonresidential buildings	70 076	43 338	20 163	6 584	6	7	9	20
Land development for buildings	31 209	(NA)	(NA)	(NA)	7	(NA)	(NA)	(NA)
Nonbuilding construction	1 850 816	1 220 159	358 004	272 652	1	2	2	3
Highways, streets, and related facilities	688 642	421 914	184 118	82 609	2	2	3	6
Bridges, tunnels, and elevated highways	152 813	109 073	29 763	13 976	5	6	2	25
Power and communication transmission lines, towers, and related facilities	89 703	47 471	18 079	24 152	7	8	18	4
Sewers, water mains, and related facilities	283 081	237 993	28 017	17 070	3	3	4	14
Sewers, sewer lines, and related facilities	198 378	163 392	24 692	10 293	3	2	4	17
Water mains and related facilities	84 702	74 600	3 325	6 776	6	6	11	16
Pipeline, other than sewer or water lines	36 319	(D)	5 051	(D)	5	(D)	5	(D)
Mass transit construction	49 387	(D)	2 781	(D)	2	(D)	13	(D)
Heavy industrial facilities	124 677	62 811	29 885	31 980	3	4	5	8
Blast furnaces, petroleum refineries, and chemical complexes	70 936	29 211	25 133	16 591	1	1	(W)	6
Power plants	53 740	33 600	4 751	15 388	7	8	31	10
Sewage treatment and water treatment plants	133 338	105 954	22 157	5 226	3	3	6	5
Sewage treatment plants	90 713	69 323	17 911	3 478	3	3	6	7
Water treatment plants	42 625	36 630	4 246	1 748	6	6	16	6
Earthmoving, nonbuilding	38 614	32 132	3 412	3 069	16	19	10	12
Other nonbuilding construction	254 242	148 828	34 714	70 682	12	9	14	32
Construction work, n.s.k.	334 365	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	6 450 207	5 393 246	(NA)	1 056 960	1	1	(NA)	1
Building construction	4 799 269	4 061 816	(NA)	737 453	1	1	(NA)	1
Single-family houses	816 340	593 092	(NA)	223 248	2	3	(NA)	3
Single-family houses, detached	713 131	508 199	(NA)	204 932	3	3	(NA)	4
Single-family houses, attached	103 209	84 892	(NA)	18 316	8	8	(NA)	9
Apartment buildings with two or more apartments	215 777	177 270	(NA)	38 506	3	3	(NA)	4
Other residential buildings, including hotels and motels	87 513	71 808	(NA)	15 705	2	2	(NA)	6
Office buildings	982 564	881 188	(NA)	101 375	1	1	(NA)	3
Other commercial buildings such as stores, restaurants, and automobile service stations	341 741	268 701	(NA)	73 040	2	2	(NA)	4
Industrial buildings and warehouses	1 411 775	1 232 762	(NA)	179 013	1	1	(NA)	2
Industrial buildings	1 167 299	1 014 834	(NA)	152 465	1	1	(NA)	2
Warehouses	244 476	217 928	(NA)	26 547	2	3	(NA)	4
Religious buildings	66 546	52 519	(NA)	14 026	3	4	(NA)	5
Educational buildings	156 023	125 113	(NA)	30 909	3	3	(NA)	5
Hospitals and institutional buildings	606 819	565 228	(NA)	41 590	1	1	(NA)	2
Farm buildings	39 890	33 079	(NA)	6 811	8	10	(NA)	10
Amusement, social, and recreational buildings	28 354	21 855	(NA)	6 499	5	6	(NA)	3
Other nonresidential buildings	45 927	39 201	(NA)	6 731	6	5	(NA)	26
Nonbuilding construction	1 284 175	1 033 931	(NA)	250 244	1	1	(NA)	3
Highways, streets, and related facilities	384 697	273 534	(NA)	111 163	3	2	(NA)	6
Bridges, tunnels, and elevated highways	86 920	74 623	(NA)	12 296	1	1	(NA)	1
Tunnels	7 961	7 602	(NA)	359	3	3	(NA)	(W)
Bridges and elevated highways	78 959	67 021	(NA)	11 937	1	1	(NA)	1
Marine construction	33 564	(D)	(NA)	(D)	2	(D)	(NA)	(D)
Power and communication transmission lines, towers, and related facilities	71 471	56 052	(NA)	15 419	6	6	(NA)	5
Sewers, water mains, and related facilities	156 820	137 772	(NA)	19 048	3	3	(NA)	7
Sewers, sewer lines, and related facilities	91 915	84 100	(NA)	7 814	5	4	(NA)	6
Water mains and related facilities	64 905	53 671	(NA)	11 234	5	6	(NA)	13
Pipeline, other than sewer or water lines	44 070	42 767	(NA)	1 303	1	1	(NA)	1
Mass transit construction	28 899	(D)	(NA)	(D)	5	(D)	(NA)	(D)
Heavy industrial facilities	234 062	178 260	(NA)	55 801	(W)	(W)	(NA)	1
Blast furnaces, petroleum refineries, and chemical complexes	159 790	129 698	(NA)	30 091	(W)	(W)	(NA)	1
Power plants	74 271	48 561	(NA)	25 709	1	1	(NA)	2
Power plants, nuclear	11 915	(D)	(NA)	(D)	(W)	(D)	(NA)	(D)
Power plants, except nuclear	62 356	(D)	(NA)	(D)	1	(D)	(NA)	(D)
Sewage treatment and water treatment plants	145 532	142 112	(NA)	3 419	2	2	(NA)	7
Sewage treatment plants	80 322	77 784	(NA)	2 538	4	4	(NA)	7
Water treatment plants	65 210	64 328	(NA)	881	1	1	(NA)	20
Other nonbuilding construction	84 385	66 493	(NA)	17 896	8	8	(NA)	10
Construction work, n.s.k.	366 761	297 498	(NA)	69 262	3	3	(NA)	4

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction Industries and land subdividers and developers -----	11 457	83 292	137 526	76 086	30 526	84 933	35 435
15, 16, 17	Construction Industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	1 827	6 378	9 887	5 981	2 218	6 501	2 492
1522	Other residential buildings -----	196	1 016	1 564	961	379	1 086	391
1531	Operative builders -----	487	2 231	3 443	2 143	826	2 330	888
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	168	3 757	7 223	3 931	1 979	3 874	1 975
1542	Nonresidential buildings, n.e.c. -----	757	8 235	15 203	7 702	3 512	8 293	3 935
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	267	5 085	8 660	3 649	1 326	5 711	2 486
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	58	1 235	1 944	974	378	1 396	517
1623	Water, sewer, and utility lines -----	182	2 507	4 368	2 210	922	2 412	1 124
1629	Heavy construction, n.e.c. -----	309	2 108	3 114	1 777	624	2 279	836
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	1 420	9 722	17 604	9 417	4 185	9 635	4 356
1721	Painting and paper hanging -----	671	3 997	5 904	3 336	1 199	4 080	1 492
1731	Electrical work -----	808	7 076	12 162	7 038	2 975	6 870	3 011
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	545	4 387	5 474	3 970	1 139	4 503	1 363
1742	Plastering, drywall, and insulation work --	375	3 998	6 335	4 059	1 576	4 030	1 619
1743	Terrazzo, tile, marble, and mosaic work -	59	365	674	363	164	371	172
175	Carpentry and floor work:							
1751	Carpentry -----	736	3 708	5 850	3 226	1 221	4 016	1 585
1752	Floor laying and other floor work -----	130	848	1 315	776	288	849	320
1761	Roofing, siding, and sheet metal work -----	585	4 354	6 826	4 141	1 571	4 231	1 623
1771	Concrete work -----	694	5 400	8 491	4 451	1 607	5 410	2 261
1781	Water well drilling -----	63	235	475	229	114	238	128
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	48	879	1 352	934	333	927	360
1793	Glass and glazing work -----	65	439	814	457	218	440	196
1794	Excavation work -----	353	1 830	3 012	1 567	619	1 912	810
1795	Wrecking and demolition work -----	13	85	175	85	41	81	42
1796	Installing building equipment, n.e.c. -----	62	638	1 314	649	319	616	306
1799	Special trade contractors, n.e.c. -----	454	2 683	4 238	1 968	760	2 742	1 105
6552	Land subdividers and developers, n.e.c. --	115	82	93	81	19	92	27

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
89 520	37 713	82 630	33 850	1	1	1	1	1	1	1	1	1	1	15, 16, 17
														15
6 717 1 067	2 699 424	6 312 950	2 476 367	4 13	5 17	4 13	6 16	4 15	6 16	4 14	6 16	4 13	5 19	152 1521 1522
2 311	900	2 139	827	7	8	7	9	7	8	7	9	7	8	1531
														154
3 974 8 886	1 822 4 028	3 247 8 061	1 447 3 726	4 3	4 3	3 3	3 3	4 3	5 3	5 3	5 3	7 3	5 3	1541 1542
														16
5 993	2 865	4 987	1 981	3	3	4	4	3	4	3	3	3	3	1611
														162 1622
1 355 2 706 2 303	566 1 165 868	1 216 2 699 2 071	481 1 156 784	8 7 5	8 7 6	9 5 5	10 7 6	8 4 6	8 7 7	8 10 5	9 6 7	7 17 5	8 11 6	1623 1629
														17
10 009	4 564	9 828	4 497	2	2	2	2	2	3	2	3	2	3	1711
4 657	1 788	3 913	1 424	5	6	5	6	5	6	6	7	6	6	1721
7 444	3 222	6 955	2 953	2	3	2	3	2	3	2	3	2	3	1731
														174
4 325 3 999 372	1 464 1 643 169	4 752 3 905 356	1 506 1 495 166	4 3 13	6 4 17	4 3 14	6 4 19	4 3 13	6 4 16	4 3 13	6 4 17	4 4 13	7 4 16	1741 1742 1743
4 083 901	1 633 357	3 508 867	1 408 349	5 5	7 6	5 4	7 6	5 5	7 6	5 5	6 7	5 5	7 7	175 1751 1752
4 732	1 875	4 312	1 755	4	5	4	5	4	5	4	5	4	5	1761
6 112	2 441	5 628	2 181	4	5	5	5	5	6	5	5	4	5	1771
248	121	226	111	11	11	10	11	11	10	11	11	13	12	1781
														179
791 430 2 088 85 692 3 145	307 197 862 46 378 1 273	867 429 1 754 90 596 2 879	350 202 720 45 308 1 099	5 6 8 9 7 5	5 7 10 7 11 7	3 6 9 8 4 6	4 7 10 5 8 8	4 5 8 6 8 6	4 7 10 5 9 8	6 7 9 9 10 5	6 8 11 9 19 7	6 6 8 11 5 6	6 7 10 8 5 8	1791 1793 1794 1795 1796 1799
85	23	72	23	21	25	24	27	25	30	20	24	20	23	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	9.2	23.2	1 651.1	126.1	.233	.302	.267	.011
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	4.4	15.6	1 550.2	105.9	.186	.330	.245	.007
1522	Other residential buildings	6.5	17.5	1 539.4	202.1	.108	.317	.479	.004
1531	Operative builders	7.3	24.9	1 543.3	354.3	.112	.374	(D)	.003
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	29.5	29.1	1 922.5	256.2	.150	.188	.463	.006
1542	Nonresidential buildings, n.e.c.	14.9	28.2	1 846.1	254.3	.152	.199	.558	.005
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	22.9	26.8	1 703.0	151.4	.213	.323	.182	.024
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	25.1	19.3	1 574.1	114.2	.200	(D)	.180	.013
1623	Water, sewer, and utility lines	16.3	23.3	1 742.3	108.6	.254	.320	.111	.020
1629	Heavy construction, n.e.c.	8.6	21.0	1 477.2	113.7	.232	.252	.218	.029
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning.....	9.2	26.8	1 810.7	124.3	.290	.373	.167	.012
1721	Painting and paper hanging.....	7.0	18.6	1 477.1	50.9	.429	.214	.033	.011
1731	Electrical work	11.3	27.3	1 718.8	98.7	.358	.358	.025	.011
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	9.0	18.4	1 247.8	50.2	.409	.306	.021	.006
1742	Plastering, drywall, and insulation work	12.4	23.8	1 584.5	75.1	.369	.353	.065	.009
1743	Terrazzo, tile, marble, and mosaic work	7.9	24.2	1 846.6	74.7	.414	(D)	.013	.015
175	Carpentry and floor work:								
1751	Carpentry	5.8	19.1	1 577.7	62.5	.355	.376	.083	.009
1752	Floor laying and other floor work	8.8	23.1	1 550.7	102.3	.304	.444	.052	.010
1761	Roofing, siding, and sheet metal work	9.2	20.5	1 567.8	83.7	.304	.350	.074	.013
1771	Concrete work	9.1	19.6	1 572.4	74.2	.309	.385	.047	.016
1781	Water well drilling	4.7	12.9	2 021.3	70.0	.232	.555	.020	.003
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	21.5	24.1	1 538.1	73.8	.382	.262	.028	.026
1793	Glass and glazing work	9.5	27.6	1 854.2	123.3	.316	.501	.042	.020
1794	Excavation work	6.2	20.1	1 645.9	85.5	.281	.240	.069	.037
1795	Wrecking and demolition work	8.2	24.6	2 058.8	150.8	.206	.101	(D)	.069
1796	Installing building equipment, n.e.c.	13.3	29.2	2 059.6	102.0	.369	.315	.023	.009
1799	Special trade contractors, n.e.c.	7.5	18.4	1 579.6	77.3	.300	.336	.095	.021
6552	Land subdividers and developers, n.e.c.	3.3	18.6	1 134.1	367.9	.238	.253	.231	.005

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
15,16, 17	KANSAS CITY, MO-KS MSA											
	Construction industries and land subdividers and developers	3 783	40 356	966 349	4 243 206	3 054 538	1 899 811	1 279 221	1 188 669	60 205	1	1
	Construction industries:											
	Building construction—General contractors and operative builders:											
	General contractors, residential buildings:											
	Single-family houses	529	2 560	42 673	(D)	(D)	90 042	(D)	67 468	2 576	8	(D)
	Other residential buildings	46	392	7 264	76 647	23 799	10 576	13 910	52 848	618	10	3
	Operative builders	159	582	14 334	179 537	99 570	44 764	58 985	79 967	*667	15	20
	General contractors, nonresidential buildings:											
	Industrial buildings and warehouses	45	620	17 754	211 076	81 973	35 910	(D)	129 103	724	10	4
	Nonresidential buildings, n.e.c.	298	4 573	124 923	901 614	358 187	239 613	178 007	543 427	4 506	4	3
	Heavy construction other than building construction—contractors:											
	Highway and street construction	74	2 231	66 793	311 882	249 472	168 152	99 546	62 410	10 148	4	2
	Heavy construction, except highway: Bridge, tunnel, and elevated											
	highway construction	23	683	19 930	102 154	82 670	36 372	(D)	19 484	1 941	8	3
	Water, sewer, and utility lines	101	1 400	39 927	179 099	160 620	91 710	(D)	18 479	6 948	6	3
	Heavy construction, n.e.c.	75	958	25 673	93 699	78 023	55 020	24 792	15 676	3 931	5	3
	Special trade contractors:											
	Plumbing, heating, and air- conditioning	425	5 144	141 248	524 934	419 859	254 522	170 846	105 075	6 705	3	2
	Painting and paper hanging	252	1 673	27 607	64 480	61 838	47 071	15 392	2 641	967	11	8
	Electrical work	259	4 104	118 229	317 772	308 317	203 020	107 630	9 455	4 438	2	2
	Masonry, stonework, tile setting, and plastering:											
	Masonry, stone setting, and other stonework	151	2 050	30 270	79 040	76 248	55 132	21 508	2 792	2 021	6	7
	Plastering, drywall, and insulation work	166	2 066	47 418	145 516	135 434	85 787	53 755	10 082	1 399	4	4
	Terrazzo, tile, marble, and mosaic work	17	103	2 320	6 389	6 346	4 062	(D)	43	92	3	2
	Carpentry and floor work:											
	Carpentry	267	1 588	25 795	65 505	61 769	39 303	23 369	3 737	1 377	9	8
	Floor laying and other floorwork	54	356	8 376	31 524	28 084	13 819	(D)	3 440	*286	10	15
	Roofing, siding, and sheet metal work	184	2 014	45 308	151 087	144 885	87 728	57 957	6 201	2 447	3	3
	Concrete work	279	3 101	65 629	226 251	214 287	136 764	79 175	11 963	5 078	5	4
	Water well drilling	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Miscellaneous special trade contractors:											
	Structural steel erection	19	448	11 275	26 339	24 506	20 369	(D)	1 833	309	6	2
	Glass and glazing work	31	270	7 144	24 726	23 870	12 819	11 786	856	450	8	6
	Excavation work	120	1 056	22 643	85 157	76 729	58 397	18 445	8 428	924	10	8
	Wrecking and demolition work	4	(D)	(D)	2 463	(D)	(D)	304	(D)	*81	(D)	(D)
	Installing building equipment, n.e.c.	25	907	24 554	53 264	48 613	36 440	(D)	*4 651	263	5	5
	Special trade contractors, n.e.c.	138	1 244	23 451	92 193	83 415	53 699	34 422	8 778	1 228	9	14
6552	Land subdividers and developers, n.e.c.	39	143	3 717	*48 175	*28 622	14 485	(S)	*19 553	(D)	34	58
15,16, 17	ST. LOUIS, MO-IL MSA											
	Construction industries and land subdividers and developers	5 351	61 400	1 598 630	6 658 679	4 806 553	3 188 121	1 877 503	1 852 126	95 388	1	1
	Construction industries:											
	Building construction—General contractors and operative builders:											
	General contractors, residential buildings:											
	Single-family houses	866	4 579	81 933	392 966	300 473	196 925	115 962	92 493	5 316	5	4
	Other residential buildings	80	526	11 287	124 668	50 706	28 131	25 374	73 962	*1 119	12	10
	Operative builders	212	2 566	73 973	628 909	377 437	158 849	233 104	251 472	3 775	5	5
	General contractors, nonresidential buildings:											
	Industrial buildings and warehouses	79	3 900	122 062	731 698	412 174	313 735	107 982	319 524	8 158	3	2
	Nonresidential buildings, n.e.c.	379	6 827	214 870	1 396 902	600 433	484 636	274 466	796 469	6 332	3	2

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987—Con.

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	ST. LOUIS, MO-IL MSA—Con.											
	Construction Industries and land subdividers and developers—Con. Construction Industries—Con.											
15,16, 17 16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction -----	101	2 483	67 636	318 135	260 064	165 043	99 206	58 071	7 755	4	3
162 1622	Heavy construction, except highway: Bridge, tunnel, and elevated highway construction-----	10	280	6 906	34 311	25 679	11 018	14 681	8 633	466	17	11
1623	Water, sewer, and utility lines -----	54	1 036	26 793	98 318	84 897	57 373	27 630	13 421	4 419	6	4
1629	Heavy construction, n.e.c. -----	85	1 692	44 764	206 212	170 241	131 162	(D)	35 970	17 293	5	4
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	743	7 787	224 872	702 999	606 288	344 783	(D)	96 712	6 049	2	2
1721	Painting and paper hanging-----	404	3 176	62 970	149 622	144 891	114 940	30 698	4 731	2 200	5	4
1731	Electrical work -----	359	5 682	172 518	460 813	449 585	302 124	151 183	11 227	4 748	2	2
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework -----	241	2 284	55 288	131 283	127 798	92 224	36 574	3 485	2 136	6	4
1742	Plastering, drywall, and insulation work -----	139	2 534	70 529	174 257	163 307	109 035	56 628	10 950	679	3	3
1743	Terrazzo, tile, marble, and mosaic work -----	33	337	8 333	19 657	19 308	11 723	(D)	349	436	21	13
175	Carpentry and floor work:											
1751	Carpentry -----	344	2 502	55 688	138 503	127 611	80 579	50 784	10 892	1 176	5	5
1752	Floor laying and other floorwork-----	51	770	19 856	62 891	59 723	36 151	27 587	*3 168	435	5	8
1761	Roofing, siding, and sheet metal work -----	314	3 540	76 952	243 160	224 316	140 962	86 546	18 844	3 173	4	3
1771	Concrete work -----	277	3 527	81 791	257 066	243 197	149 141	98 792	13 869	5 880	4	3
1781	Water well drilling -----	21	138	2 446	8 600	(D)	4 270	4 194	(D)	946	17	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection -----	33	768	19 333	54 684	53 105	37 628	15 968	1 579	600	2	4
1793	Glass and glazing work -----	29	322	9 876	26 968	26 666	15 044	12 386	302	(D)	1	2
1794	Excavation work -----	125	945	21 493	78 701	72 024	54 019	18 597	6 677	5 832	10	6
1795	Wrecking and demolition work -----	19	94	2 303	11 814	(D)	8 062	1 108	(D)	(D)	11	(D)
1796	Installing building equipment, n.e.c. -----	46	544	15 536	41 893	40 767	28 675	13 150	1 125	*542	12	8
1799	Special trade contractors, n.e.c. -----	228	2 241	43 921	143 258	133 278	98 323	43 570	9 980	4 010	7	12
6552	Land subdividers and developers, n.e.c. -----	79	322	4 701	20 392	15 656	13 568	5 656	4 736	1 311	12	22

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Nebraska

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SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for Nebraska. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the SIC Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 14,181 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$2.6 billion in total value of business done.

Most of the 14,181 construction establishments were small. Of the total, 10,315 were nonemployers, and over half of the employer establishments had less than 5 employees. The 1,487 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 72 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$2.2 billion of total dollar value of business done. Of this amount, \$2.1 billion were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$448 million, leaving net value of construction work of \$1.7 billion. In addition, these establishments paid out \$853 million for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$952 million. (See Introduction and appendices for explanation of terms.)

There were 3,866 establishments with total employment averaging 26,566 during the year. Total payroll for 1987 was \$479 million. Total hours worked by construction workers during the year were 35.8 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 10,315 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$359 million. Most of these establishments, about 78 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

1987 
1982 

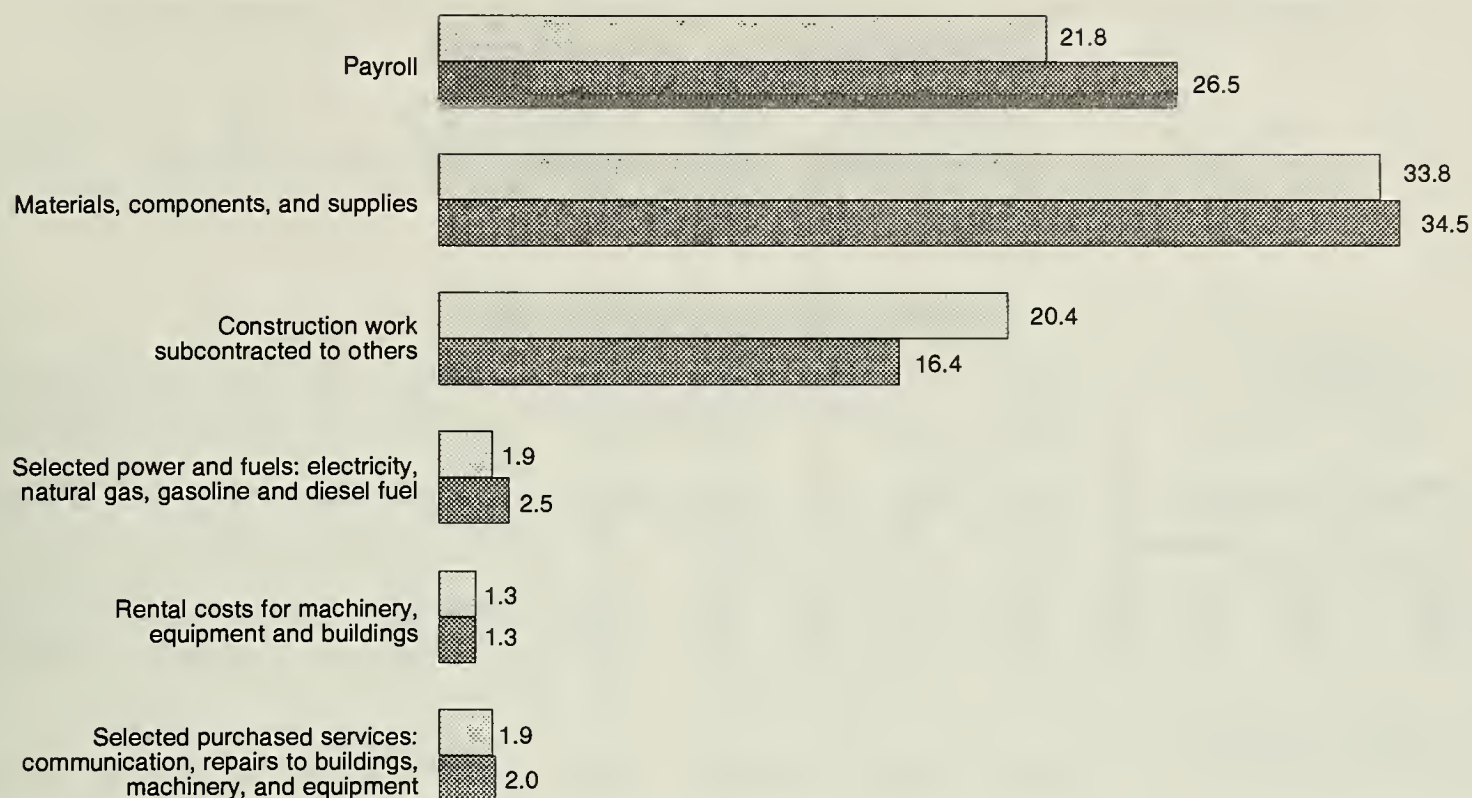


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

1987 
1982 

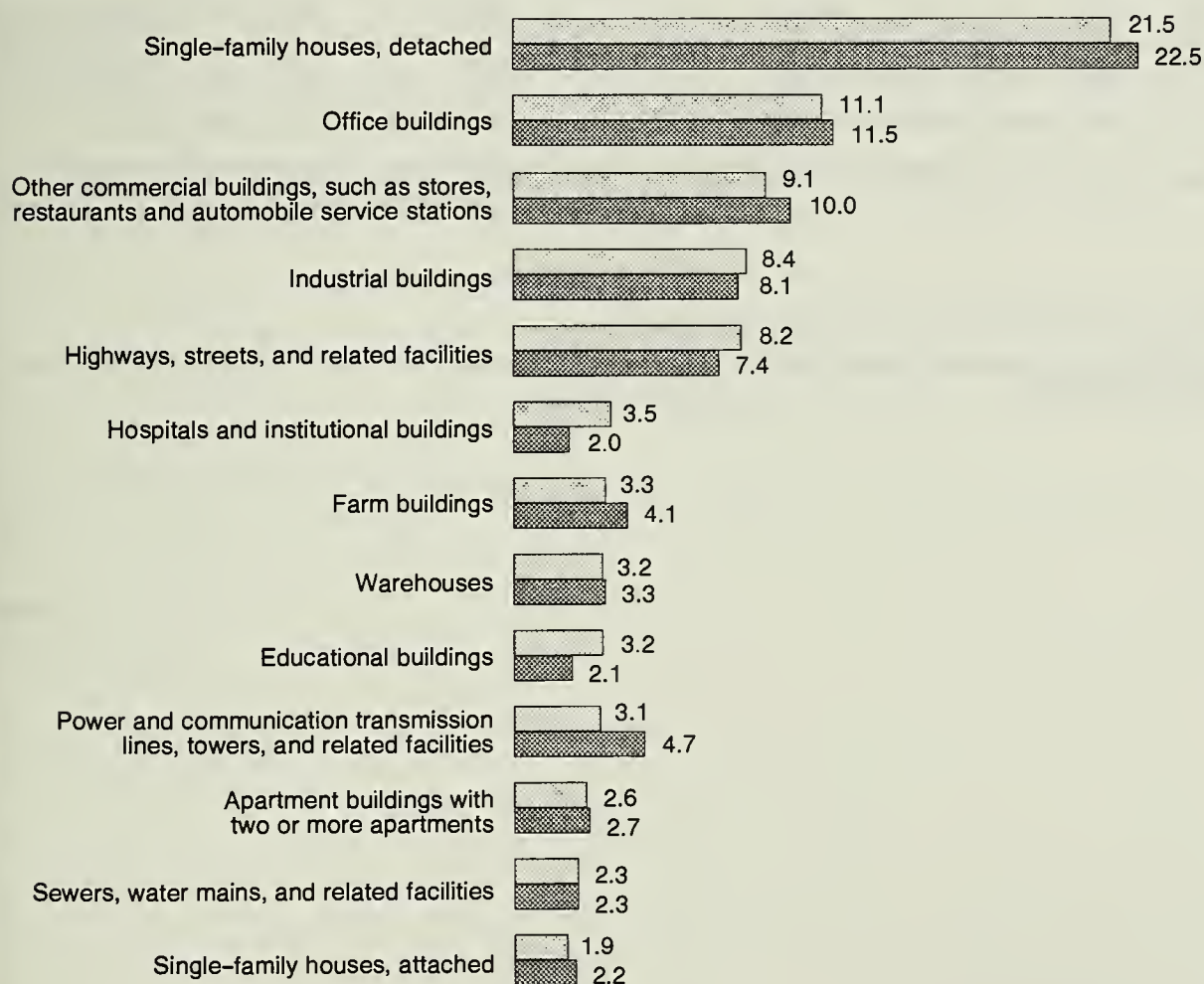


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
			Proprie- tors and working partners	All em- ployees**	Dollar value of business done		Proprie- tors and working partners	Dollar value of business done		Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
15, 16, 17	Construction Industries and land subdividers and developers	14 181	11 418	26 566	2 557 914	10 315	10 145	358 519	3 866	1 273	26 566	2 199 395	2	2
	Construction industries	13 999	11 283	26 380	2 522 212	10 173	10 031	334 230	3 826	1 252	26 380	2 187 982	2	2
	Building construction—General contractors and operative builders	3 002	2 182	(D)	(D)	1 963	1 836	121 946	1 039	346	(D)	(D)	(D)	(D)
16	Heavy construction other than building construction— contractors	508	246	4 648	421 351	190	188	16 013	318	58	4 648	405 338	3	3
17	Special trade contractors	10 489	8 855	(D)	(D)	8 020	8 007	196 271	2 469	848	(D)	(D)	(D)	(D)
1711	Plumbing, heating, and air-conditioning ..	1 162	725	3 611	287 084	639	633	27 533	523	92	3 611	259 551	6	4
1731	Electrical work	1 081	838	2 641	198 113	677	667	20 642	404	171	2 641	177 471	3	5
6552	Land subdividers and developers, n.e.c.²	172	132	173	35 694	142	114	24 289	30	18	173	11 405	28	34
	1982													
15, 16, 17	Construction industries and land subdividers and developers	14 179	11 822	27 200	2 110 828	10 010	9 968	375 937	4 169	1 854	27 200	1 734 891	2	2
	Construction Industries	14 024	11 704	27 185	2 083 574	9 869	9 851	349 501	4 155	1 853	27 185	1 734 073	2	2
	Building construction—General contractors and operative builders	3 074	2 362	7 230	686 570	1 966	1 910	97 579	1 108	452	7 230	588 991	5	4
16	Heavy construction other than building construction— contractors	617	453	3 172	325 710	339	346	82 707	278	107	3 172	243 003	4	3
17	Special trade contractors	10 333	8 889	16 783	1 071 294	7 564	7 595	169 215	2 769	1 294	16 783	902 079	2	2
1711	Plumbing, heating, and air-conditioning ..	1 167	807	3 264	222 715	617	615	22 287	550	192	3 264	200 428	5	4
1731	Electrical work	1 110	870	3 912	240 086	709	706	25 321	401	164	3 912	214 765	3	3
6552	Land subdividers and developers, n.e.c.²	149	117	10	27 249	141	117	26 436	*8	-	10	813	35	33

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State	14 181	11 418	26 566	2 557 914	10 315	10 145	358 519	3 866	1 273	26 566	2 199 395	2	2
\$10,000,000 or more	17	-	2 731	355 195	-	-	-	17	-	2 731	355 195	(W)	(W)
\$5,000,000 to \$9,999,999	54	-	2 790	(D)	1	-	(D)	53	-	2 790	373 540	1	3
\$2,500,000 to \$4,999,999	102	6	3 318	727 451	6	(D)	26 662	96	(D)	3 318	327 249	3	6
\$1,000,000 to \$2,499,999	310	31	4 352	467 907	16	15	25 289	294	22	4 352	442 618	4	7
\$500,000 to \$999,999	387	55	3 347	265 731	27	29	17 338	360	26	3 347	248 393	7	9
 \$250,000 to \$499,999	692	262	4 233	245 165	103	90	35 339	589	172	4 233	209 826	10	8
\$100,000 to \$249,999	1 646	982	3 672	254 062	536	520	79 112	1 110	462	3 672	174 950	7	6
\$50,000 to \$99,999	1 720	1 365	1 448	119 976	1 000	988	69 264	720	377	1 448	50 712	10	8
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	1 466	1 435	51 973	(S)	(S)	(S)	(S)	(S)	(S)
 Less than \$25,000	(S)	(S)	(S)	(S)	7 160	7 068	53 542	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	2 195	2 165	35 945	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	1 428	1 411	10 374	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	1 234	1 218	4 472	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	2 303	2 274	2 750	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
 1982													
The State	14 179	11 822	27 200	2 110 828	10 010	9 968	375 937	4 169	1 854	27 200	1 734 891	2	2
\$10,000,000 or more	17	10	3 057	(D)	5	10	71 205	12	-	3 057	(D)	(W)	(D)
\$5,000,000 to \$9,999,999	39	-	2 592	(D)	1	-	(D)	38	-	2 592	(D)	(W)	(D)
\$2,500,000 to \$4,999,999	61	6	2 584	(D)	1	-	(D)	60	6	2 584	752 766	(W)	(W)
\$1,000,000 to \$2,499,999	201	9	3 780	1 146 650	11	5	27 826	190	4	3 780	294 853	4	6
\$500,000 to \$999,999	383	59	4 050	263 782	38	32	27 004	345	27	4 050	236 778	7	7
 \$250,000 to \$499,999	633	205	3 640	221 021	78	74	25 842	555	131	3 640	195 179	7	7
\$100,000 to \$249,999	1 508	942	4 274	237 769	434	422	64 676	1 074	520	4 274	173 093	7	6
\$50,000 to \$99,999	1 687	1 378	1 744	118 957	872	887	60 300	815	491	1 744	58 657	8	5
\$25,000 to \$49,999	1 824	1 651	806	64 288	1 350	1 359	47 180	474	292	806	17 108	10	8
 Less than \$25,000	7 824	7 561	672	58 361	7 220	7 179	51 904	604	382	672	6 457	8	8
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	2 211	2 190	34 146	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	1 648	1 638	11 048	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	1 789	1 781	5 138	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	1 572	1 570	1 572	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
A	B	C	D	E	F	G	H		
	Construction industries and land subdividers and developers -----	3 866	26 566	20 897	479 247	349 591	35 792	2 137 566	1 689 401
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses-----	621	2 037	1 550	27 841	18 358	2 419	168 995	118 184
1522	Other residential buildings-----	16	176	133	3 963	2 242	195	27 567	11 410
1531	Operative builders-----	83	(D)	(D)	(D)	(D)	120	(D)	50 975
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses-----	51	737	558	14 753	10 561	1 078	86 354	54 742
1542	Nonresidential buildings, n.e.c.-----	268	3 163	2 412	61 399	41 003	3 884	435 551	249 007
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction-----	93	2 032	1 729	43 030	33 273	3 390	208 193	179 474
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction-----	29	292	241	5 255	4 065	461	24 245	19 077
1623	Water, sewer, and utility lines-----	44	1 388	1 165	27 908	21 095	1 941	75 620	70 525
1629	Heavy construction, n.e.c.-----	152	936	719	17 944	11 911	1 120	89 505	78 073
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning-----	523	3 611	2 658	68 555	49 134	4 820	254 436	233 177
1721	Painting and paper hanging-----	210	861	755	13 318	11 394	1 304	35 478	33 459
1731	Electrical work-----	404	2 641	2 032	58 457	44 782	3 808	175 141	167 097
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework-----	180	901	785	10 648	9 380	1 099	28 991	27 687
1742	Plastering, drywall, and insulation work-----	128	1 235	1 040	21 120	16 574	1 974	72 562	(D)
1743	Terrazzo, tile, marble, and mosaic work-----	12	75	57	1 972	1 528	115	4 502	(D)
175	Carpentry and floor work:								
1751	Carpentry-----	250	874	711	11 138	8 477	1 161	47 319	43 866
1752	Floor laying and other floor work-----	63	217	145	4 066	2 966	246	17 496	15 693
1761	Roofing, siding, and sheet metal work-----	161	1 419	1 104	23 988	16 628	1 826	86 022	81 673
1771	Concrete work-----	182	1 427	1 238	17 090	13 304	1 875	66 191	61 473
1781	Water well drilling-----	85	335	245	5 946	4 540	437	25 119	24 848
179	Miscellaneous special trade contractors:								
1791	Structural steel erection-----	35	190	161	4 067	3 437	354	8 182	8 041
1793	Glass and glazing work-----	21	177	122	3 549	2 471	185	13 363	13 202
1794	Excavation work-----	69	329	272	4 878	4 116	440	19 309	18 330
1795	Wrecking and demolition work-----	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.-----	27	358	289	9 253	7 577	461	22 374	21 768
1799	Special trade contractors, n.e.c.-----	115	666	571	8 021	6 649	859	27 117	24 612
6552	Land subdividers and developers, n.e.c.-----	30	173	*47	*2 480	*650	(S)	7 452	5 804

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
952 428	783 692	448 164	28 130	39 534	387 047	27 195	1 689 202	801 332	2	2	4	15, 16, 17
												15
59 157 5 199	59 729 (D)	50 810 16 156	1 324 73	2 830 230	18 530 1 358	2 195 (D)	130 450 18 179	54 656 4 839	8 29	9 28	20 18	152 1521 1522
(D)	28 846	(D)	*139	*874	20 322	489	61 254	13 095	(D)	19	44	1531
28 269 131 741	26 599 127 371	31 611 186 544	434 2 587	1 458 3 179	12 000 46 966	795 3 524	48 567 316 224	16 912 92 858	13 5	18 5	21 14	154 1541 1542
												16
86 932	96 615	28 718	4 540	11 614	100 381	1 580	108 698	51 265	5	6	8	1611
10 205 34 900 53 864	(D) 35 695 27 763	5 168 5 095 11 432	173 2 199 4 199	(D) 1 506 2 685	6 245 13 515 33 880	263 989 340	17 377 80 558 29 404	7 901 50 239 15 683	16 4 9	15 4 7	(D) 36 11	162 1622 1623 1629
												17
129 684	108 608	21 259	3 192	4 678	35 118	3 264	191 334	96 188	6	4	17	1711
25 152	8 383	2 019	637	682	5 838	699	19 025	13 953	8	8	30	1721
101 639	67 788	8 043	1 653	2 139	17 468	3 912	212 797	123 228	3	5	17	1731
18 807 41 936 3 034	9 037 (D) 1 668	1 304 (D) (D)	296 812 17	774 464 44	6 447 5 082 780	763 1 274 104	21 365 68 957 3 072	12 949 37 685 2 141	16 7 7	14 (D) (D)	35 28 (W)	174 1741 1742 1743
22 736 7 765	23 352 8 658	3 453 1 803	401 287	603 *174	8 058 957	948 130	38 050 7 336	19 859 3 507	11 23	14 13	25 41	175 1751 1752
46 770	36 571	4 348	1 168	1 494	10 509	1 524	105 349	52 511	8	8	20	1761
35 031	26 539	4 718	1 822	1 287	10 650	1 127	44 853	23 405	18	10	32	1771
11 729	13 154	270	39	384	8 868	521	33 765	18 676	7	10	3	1781
6 545 6 942 14 629 (D) 17 243 18 279	(D) 7 304 3 730 (D) 5 587 8 914	*140 161 979 (D) 606 2 505	259 166 *330 514 351 440	(D) 41 *1 020 (D) 74 745	2 136 504 11 766 3 713 931 4 870	177 118 1 408 *16 283 (D)	7 801 9 460 73 737 *1 092 18 497 21 546	4 812 4 853 51 512 *916 13 492 13 963	21 12 22 (D) 6 15	23 16 14 (D) 6 14	(D) (W) 48 (D) 13 35	179 1791 1793 1794 1795 1796 1799
3 955	*2 584	*1 648	*70	*55	*144	10	455	234	28	36	73	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	3 866	4 169	4 946	3 862	1	2	3	4
Proprietors and working partners	1 273	1 854	3 283	2 808	6	5	5	6
All employees**	26 566	27 200	35 975	29 438	2	2	1	3
Construction workers:								
March	17 699	17 972	26 626	21 369	2	2	2	3
May	21 637	21 775	32 273	25 615	3	2	2	3
August	23 359	24 676	34 193	28 642	2	2	2	3
November	20 894	22 725	30 428	23 733	2	2	2	3
Average	20 897	22 216	30 905	25 230	2	2	2	3
Other employees:								
March	5 633	4 966	4 945	4 123	2	3	2	3
May	5 692	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
August	5 600	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
November	5 751	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Average	5 669	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	7 178	7 326	(NA)	(NA)	2	2	(NA)	(NA)
April to June	9 149	9 366	(NA)	(NA)	2	2	(NA)	(NA)
July to September	10 340	10 674	(NA)	(NA)	2	2	(NA)	(NA)
October to December	9 124	9 836	(NA)	(NA)	2	2	(NA)	(NA)
Total hours worked	35 792	37 204	(NA)	(NA)	2	2	(NA)	(NA)
Payroll, all employees	479 247	459 659	438 003	263 498	1	1	1	2
Payroll, construction workers	349 591	366 318	356 121	215 505	1	1	1	2
Payroll, other employees	129 656	93 340	81 881	47 993	2	2	1	3
First quarter payroll, all employees	100 113	92 311	89 886	(NA)	2	2	1	(NA)
Employer costs for fringe benefits, all employees	96 412	83 976	69 169	(NA)	2	2	1	(NA)
Legally required expenditures	66 917	63 672	42 548	(NA)	2	2	1	(NA)
Voluntary expenditures	29 494	20 304	26 621	(NA)	2	2	1	(NA)
Dollar value of business done	2 199 395	1 734 891	1 932 259	1 042 772	2	2	1	3
Value of construction work ¹	2 137 566	1 689 207	1 872 480	1 007 922	2	2	1	3
Value of construction work subcontracted in from others	500 366	372 138	391 214	176 688	4	3	2	4
Land receipts ²	15 110	6 477	(NA)	(NA)	20	13	(NA)	(NA)
Other business receipts	46 719	39 207	59 779	34 850	7	5	4	6
Net value of construction†	1 689 401	1 403 600	1 544 097	815 598	2	2	1	2
Value added††	952 428	801 343	906 507	502 042	2	2	1	3
Selected costs	1 231 857	927 071	1 009 050	534 404	2	2	2	3
Materials, components, and supplies ³	742 767	598 051	644 548	342 080	2	2	2	3
Construction work subcontracted to others	448 164	285 607	328 383	192 324	4	3	3	6
Selected power, fuels, and lubricants	40 925	43 412	36 119	(NA)	2	3	2	(NA)
Electricity	4 355	4 202	3 092	(NA)	3	4	4	(NA)
Natural gas	2 070	2 841	2 093	(NA)	4	4	5	(NA)
Gasoline and diesel fuel	31 929	33 029	26 662	(NA)	2	3	2	(NA)
On highway use	21 461	(NA)	(NA)	(NA)	2	(NA)	(NA)	(NA)
Off highway use	10 468	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	2 569	3 339	4 272	(NA)	6	6	5	(NA)
Rental cost for machinery, equipment, and buildings	28 130	23 108	22 872	(NA)	3	2	2	(NA)
For machinery and equipment	17 954	17 840	19 393	12 828	3	2	2	4
For buildings	10 175	5 267	3 479	(NA)	6	5	3	(NA)
Selected purchased services	41 262	34 643	39 328	(NA)	3	2	2	(NA)
Communication services	8 841	8 003	6 812	(NA)	4	4	3	(NA)
Repairs to buildings and other structures	2 180	1 713	2 186	(NA)	6	6	10	(NA)
Repairs to machinery and equipment	30 240	24 926	30 329	(NA)	3	3	2	(NA)
Ownership of construction projects:								
Value of construction work	2 137 566	1 689 207	1 872 480	1 007 922	2	2	1	3
Government owned	615 133	443 410	426 906	293 337	4	5	2	3
Federal	217 675	(NA)	(NA)	(NA)	8	(NA)	(NA)	(NA)
State and local	397 458	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
Privately owned	1 522 432	1 245 797	1 445 574	714 585	3	3	2	3

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	375 545	475 877	3	2
Capital expenditures, other than land -----	39 534	40 445	4	5
New -----	25 898	31 926	4	5
Used -----	13 636	8 518	9	7
Retirements and disposition of depreciable assets -----	28 032	19 231	12	10
End-of-year gross book value of depreciable assets -----	387 047	497 091	3	2
Depreciation charges during year -----	40 060	55 636	4	3
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	69 252	78 899	10	6
Capital expenditures, other than land -----	4 902	3 375	13	13
New buildings and other structures -----	2 382	2 562	18	12
Used buildings and other structures -----	2 520	813	20	28
Retirements and disposition of depreciable assets -----	1 243	2 062	16	27
End-of-year gross book value of depreciable assets -----	72 911	80 212	9	6
Depreciation charges during year -----	4 252	6 420	9	7
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	306 293	396 977	3	2
Capital expenditures, other than land -----	34 631	37 069	5	5
New machinery and equipment, including automobiles and trucks -----	23 515	29 364	5	6
New automobiles and trucks, intended primarily for highway use -----	10 371	9 354	7	9
Used machinery and equipment, including automobiles and trucks -----	11 116	7 705	10	7
Retirements and disposition of depreciable assets -----	26 788	17 168	13	10
End-of-year gross book value of depreciable assets -----	314 136	416 879	3	2
Depreciation charges during year -----	35 807	49 215	4	3

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	3 866	1
Value of construction work	2 137 566	2
Establishments with inventories:		
Number	1 705	5
Value of construction work	1 192 436	3
Inventories¹:		
End of 1987, materials and supplies	44 344	8
End of 1986, materials and supplies	47 293	7
Establishments with no inventories:		
Number	1 702	5
Value of construction work	702 109	5
Establishments not reporting:		
Number	459	12
Value of construction work	243 021	11

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments -----	3 866	2 378	811	429	188	45	11	2	1	-
All employees** -----	26 566	4 483	5 066	5 472	5 519	3 178	2 846	(D)	(D)	-
Payroll, all employees -----	479 247	54 360	73 657	97 882	118 499	71 630	63 218	(D)	(D)	-
Construction worker hours (thousands) -----	35 792	5 128	6 429	7 629	7 825	4 552	4 227	(D)	(D)	-
Dollar value business done -----	2 199 395	366 549	314 033	443 464	495 855	325 579	253 915	(D)	(D)	-
Value of construction work ¹ -----	2 137 566	354 624	303 772	428 530	483 098	317 789	249 751	(D)	(D)	-
Net value of construction work† -----	1 689 401	285 969	260 255	344 551	611 900	(D)	186 725	(D)	(D)	-
Value added†† -----	952 428	158 090	149 043	204 813	223 031	126 828	90 622	(D)	(D)	-
Cost of materials, components, supplies, and fuels -----	783 692	132 854	119 362	308 465	(D)	122 744	100 267	(D)	(D)	-
Cost of construction work subcontracted to others -----	448 164	68 655	43 517	83 978	188 987	(D)	63 026	(D)	(D)	-
Rental cost for machinery, equipment, and buildings -----	28 130	3 010	3 621	4 559	7 336	6 012	3 589	(D)	(D)	-
Capital expenditures, other than land -----	39 534	5 179	4 426	9 910	9 286	6 577	4 155	(D)	(D)	-
End-of-year gross book value of depreciable assets -----	387 047	62 719	62 604	67 939	88 065	63 730	41 988	(D)	(D)	-
1982										
All employees** -----	27 200	5 558	4 938	5 191	4 646	2 470	2 652	1 745	-	(D)
Value of construction work ¹ -----	1 689 207	280 213	250 681	302 815	340 497	180 802	334 199	(D)	-	(D)
Value added†† -----	801 343	133 063	118 424	142 579	148 994	93 702	164 579	(D)	-	(D)
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees** -----	2	4	6	5	6	(W)	(W)	(D)	(D)	-
Net value of construction work† -----	2	7	6	5	3	(D)	(W)	(D)	(D)	-
Capital expenditures, other than land -----	4	18	17	11	9	2	(W)	(D)	(D)	-

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments	3 866	(S)	(S)	720	1 110	589	360	294	96	53	17
All employees**	26 566	(S)	(S)	1 448	3 672	4 233	3 347	4 352	3 318	2 790	2 731
Payroll, all employees	479 247	(S)	(S)	11 883	44 371	56 262	57 858	90 206	77 855	74 792	61 299
Construction worker hours (thousands)	35 792	(S)	(S)	1 665	4 312	5 647	4 512	5 863	4 824	4 235	4 014
Dollar value of business done	2 199 395	(S)	(S)	50 712	174 950	209 826	248 393	442 618	327 249	373 540	355 195
Value of construction work ¹	2 137 566	(S)	(S)	49 654	172 661	205 652	239 677	428 587	314 133	358 986	351 526
Net value of construction work†	1 689 401	(S)	(S)	47 396	159 002	192 579	205 070	330 098	261 778	244 690	232 722
Value added††	952 428	(S)	(S)	29 426	92 992	113 019	116 918	193 881	151 606	138 761	105 963
Cost of materials, components, supplies, and fuels	783 692	(S)	(S)	18 795	68 195	82 578	94 860	145 037	121 045	116 386	130 428
Cost of construction work subcontracted to others	448 164	(S)	(S)	2 258	13 659	13 073	34 607	98 488	52 354	114 296	118 804
Rental cost for machinery, equipment, and buildings	28 130	(S)	(S)	640	2 569	2 831	2 979	4 335	4 419	3 583	6 694
Capital expenditures, other than land	39 534	(S)	(S)	898	4 289	3 391	5 200	8 283	5 740	5 336	6 083
End-of-year gross book value of depreciable assets	387 047	(S)	(S)	14 646	40 006	43 556	37 829	63 957	67 390	66 637	48 057
1982											
All employees**	27 200	672	806	1 744	4 274	3 640	4 050	3 780	2 584	2 592	3 057
Value of construction work ¹	1 689 207	6 386	16 939	57 244	169 908	190 296	227 218	285 319	206 698	244 731	284 467
Value added††	801 343	3 570	9 735	30 881	90 847	95 535	102 374	128 370	90 831	120 623	128 575
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees**	2	(S)	(S)	10	7	10	7	4	3	1	(W)
Net value of construction work†	2	(S)	(S)	8	6	8	8	6	5	2	(W)
Capital expenditures, other than land	4	(S)	(S)	29	21	20	16	12	12	5	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	2 137 566	1 290 530	472 254	274 328	2	2	3	4
Building construction	1 542 058	938 459	376 441	217 776	2	3	3	6
Single-family houses	499 461	321 059	87 022	91 379	6	8	7	12
Single-family houses, detached	458 959	292 274	82 164	84 519	6	8	7	13
Single-family houses, attached	40 502	28 785	4 857	6 859	15	17	15	24
Apartment buildings with two or more apartments	55 535	34 874	13 293	7 366	7	7	22	15
Other residential buildings, including hotels and motels	25 381	14 441	6 562	4 377	16	26	14	10
Office buildings	237 500	148 586	63 925	24 988	3	4	5	4
Other commercial buildings such as stores, restaurants, and automobile service stations	194 706	129 348	45 388	19 969	4	4	8	7
Industrial buildings and warehouses	248 000	147 546	64 878	35 575	5	7	5	7
Industrial buildings	179 852	104 709	51 250	23 892	4	6	5	6
Warehouses	68 148	42 837	13 627	11 683	10	14	9	13
Religious buildings	24 909	10 902	9 402	4 604	7	9	12	12
Educational buildings	68 469	26 758	31 971	9 738	5	3	9	20
Hospitals and institutional buildings	74 414	25 642	40 243	8 529	7	11	10	13
Farm buildings	71 473	57 303	6 354	7 814	16	19	13	21
Amusement, social, and recreational buildings	20 233	13 484	4 152	2 596	12	12	17	29
Other nonresidential buildings	12 594	8 516	3 251	841	25	28	23	32
Land development for buildings	(S)	(NA)	(NA)	(NA)	(S)	(NA)	(NA)	(NA)
Nonbuilding construction	502 360	352 071	95 814	54 475	3	3	5	8
Highways, streets, and related facilities	174 672	95 506	59 242	19 923	6	8	5	18
Parking areas including private driveways	16 259	(D)	2 923	(D)	10	(D)	19	(D)
Recreational facilities such as athletic fields, golf courses, and outdoor tennis courts	15 095	(D)	*4 709	(D)	16	(D)	46	(D)
Bridges, tunnels, and elevated highways	35 344	29 854	*1 227	4 262	8	8	48	9
Conservation and development construction	20 495	13 614	*4 644	2 237	24	33	44	32
Power and communication transmission lines, towers, and related facilities	66 632	60 681	2 934	3 016	3	3	23	3
Sewers, water mains, and related facilities	48 378	29 459	11 709	7 210	9	10	12	19
Sewers, sewer lines, and related facilities	27 518	17 734	6 865	2 919	8	8	14	18
Water mains and related facilities	20 860	11 724	4 844	4 291	17	19	22	30
Other nonbuilding construction	125 485	102 337	8 435	14 728	5	5	18	15
Construction work, n.s.k.	93 146	(NA)	(NA)	(NA)	7	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	1 689 207	1 360 846	(NA)	328 361	2	2	(NA)	3
Building construction	1 156 107	932 972	(NA)	223 134	2	2	(NA)	2
Single-family houses	324 441	250 927	(NA)	73 514	5	6	(NA)	6
Single-family houses, detached	295 009	227 178	(NA)	67 831	6	6	(NA)	7
Single-family houses, attached	29 432	23 749	(NA)	5 683	11	13	(NA)	18
Apartment buildings with two or more apartments	46 514	38 658	(NA)	7 856	10	12	(NA)	10
Other residential buildings, including hotels and motels	28 370	23 583	(NA)	4 786	3	3	(NA)	7
Hotels and motels	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Other residential buildings, excluding hotels and motels	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Office buildings	201 744	173 782	(NA)	27 962	2	2	(NA)	3
Other commercial buildings such as stores, restaurants, and automobile service stations	121 682	96 053	(NA)	25 629	5	5	(NA)	9
Industrial buildings and warehouses	163 894	125 012	(NA)	38 881	3	4	(NA)	4
Industrial buildings	114 004	84 236	(NA)	29 768	3	4	(NA)	5
Warehouses	49 889	40 775	(NA)	9 113	9	8	(NA)	5
Religious buildings	20 031	14 175	(NA)	5 856	7	10	(NA)	5
Educational buildings	71 703	58 705	(NA)	12 997	6	8	(NA)	11
Hospitals and institutional buildings	68 619	58 742	(NA)	9 876	2	2	(NA)	5
Farm buildings	83 751	72 524	(NA)	11 227	12	13	(NA)	13
Amusement, social, and recreational buildings	13 173	11 922	(NA)	1 251	7	8	(NA)	14
Other nonresidential buildings	12 185	8 889	(NA)	3 299	16	16	(NA)	30
Nonbuilding construction	413 035	326 779	(NA)	86 256	2	2	(NA)	4
Highways, streets, and related facilities	131 766	97 926	(NA)	33 839	2	3	(NA)	7
Bridges, tunnels, and elevated highways	24 824	21 738	(NA)	3 085	(W)	(W)	(NA)	(W)
Conservation and development construction	19 862	17 336	(NA)	2 526	13	13	(NA)	25
Power and communication transmission lines, towers, and related facilities	45 414	37 080	(NA)	8 333	6	6	(NA)	12
Sewers, water mains, and related facilities	77 826	57 818	(NA)	20 007	4	4	(NA)	9
Sewers, sewer lines, and related facilities	34 109	27 087	(NA)	7 022	5	5	(NA)	6
Water mains and related facilities	43 716	30 731	(NA)	12 984	7	7	(NA)	13
Heavy industrial facilities	61 013	53 232	(NA)	7 781	3	3	(NA)	7
Blast furnaces, petroleum refineries, and chemical complexes	5 043	(D)	(NA)	(D)	3	(D)	(NA)	(D)
Power plants	55 970	(D)	(NA)	(D)	4	(D)	(NA)	(D)
Sewage treatment and water treatment plants	6 805	6 136	(NA)	669	5	3	(NA)	30
Other nonbuilding construction	45 525	35 513	(NA)	10 016	9	16	(NA)	7
Construction work, n.s.k.	120 065	101 094	(NA)	18 970	6	5	(NA)	7

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	3 866	20 897	35 792	17 699	7 178	21 637	9 149
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	621	1 550	2 419	1 345	547	1 588	627
1522	Other residential buildings -----	16	133	195	109	48	115	52
1531	Operative builders -----	83	(D)	120	(D)	(D)	(D)	28
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	51	558	1 078	432	208	504	245
1542	Nonresidential buildings, n.e.c. -----	268	2 412	3 884	2 026	802	2 503	1 018
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	93	1 729	3 390	1 032	377	1 932	917
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	29	241	461	193	91	311	136
1623	Water, sewer, and utility lines -----	44	1 165	1 941	1 030	412	1 174	472
1629	Heavy construction, n.e.c. -----	152	719	1 120	539	181	720	283
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	523	2 658	4 820	2 410	1 087	3 067	1 280
1721	Painting and paper hanging -----	210	755	1 304	662	270	783	334
1731	Electrical work -----	404	2 032	3 808	1 903	858	1 894	890
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	180	785	1 099	630	185	783	280
1742	Plastering, drywall, and insulation work --	128	1 040	1 974	988	443	1 000	474
1743	Terrazzo, tile, marble, and mosaic work -	12	57	115	54	23	55	27
175	Carpentry and floor work:							
1751	Carpentry -----	250	711	1 161	659	258	722	299
1752	Floor laying and other floor work -----	63	145	246	125	47	163	69
1761	Roofing, siding, and sheet metal work -----	161	1 104	1 826	886	347	1 039	446
1771	Concrete work -----	182	1 238	1 875	1 022	326	1 399	488
1781	Water well drilling -----	85	245	437	221	91	234	104
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	35	161	354	145	71	161	99
1793	Glass and glazing work -----	21	122	185	116	44	118	45
1794	Excavation work -----	69	272	440	236	98	294	130
1795	Wrecking and demolition work -----	4	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c. -----	27	289	461	275	109	294	111
1799	Special trade contractors, n.e.c. -----	115	571	859	483	177	578	229
6552	Land subdividers and developers, n.e.c. --	30	*47	(S)	*29	*3	*59	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
23 359	10 340	20 894	9 124	2	2	2	2	3	2	2	2	2	2	15, 16, 17
														15
1 760 121	666 47	1 509 *188	577 47	8 34	11 30	9 29	12 31	9 31	12 32	8 32	11 30	9 47	11 29	152 1521 1522
(D)	34	(D)	(D)	(D)	31	(D)	(D)	(D)	31	(D)	32	(D)	(D)	1531
														154
666 2 594	329 1 036	631 2 525	294 1 027	12 5	17 6	12 5	20 6	12 5	19 6	13 5	17 7	11 5	16 7	1541 1542
														16
2 217	1 230	1 733	864	5	8	4	8	5	7	6	8	6	10	1611
														162 1622
277 1 247 909	145 556 347	185 1 210 708	88 498 308	14 4 10	19 3 9	13 4 9	20 5 12	13 5 10	20 4 10	17 5 13	19 3 10	15 4 11	19 3 9	1623 1629
														17
2 691	1 261	2 463	1 191	7	6	4	5	18	12	4	5	4	6	1711
929	414	648	285	8	10	9	9	7	11	10	12	10	11	1721
2 108	1 020	2 224	1 039	3	5	3	5	4	5	4	5	3	4	1731
														174
														1741
922 1 081 59	328 526 30	804 1 089 62	304 530 33	17 8 6	21 12 5	16 7 9	19 10 7	15 9 6	21 10 6	18 8 5	22 13 5	20 8 5	21 14 5	1742 1743
784 171	331 76	679 124	271 51	11 28	13 25	11 28	13 27	12 31	14 27	10 27	13 22	12 29	15 28	175 1751 1752
1 286	536	1 205	495	8	11	10	12	9	12	8	10	8	10	1761
1 506	629	1 024	431	19	17	28	27	17	17	21	18	14	14	1771
285	129	242	112	7	12	8	12	7	11	7	13	9	14	1781
														179
151 126 301 (D) 304 624	80 48 111 (D) 123 234	187 128 259 (D) 284 597	103 47 100 (D) 116 217	22 10 21 (D) 6 15	32 (W) 33 (D) 9 22	22 8 23 (D) 6 16	35 (W) 35 (D) 9 22	19 10 22 (D) 6 14	30 (W) 35 (D) 8 22	24 10 20 (D) 5 15	30 (W) 32 (D) 10 21	26 12 20 (D) 6 16	37 (W) 33 (D) 8 22	1791 1793 1794 1795 1796 1799
*68	(S)	*33	*3	52	(S)	58	66	51	(S)	51	(S)	52	60	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

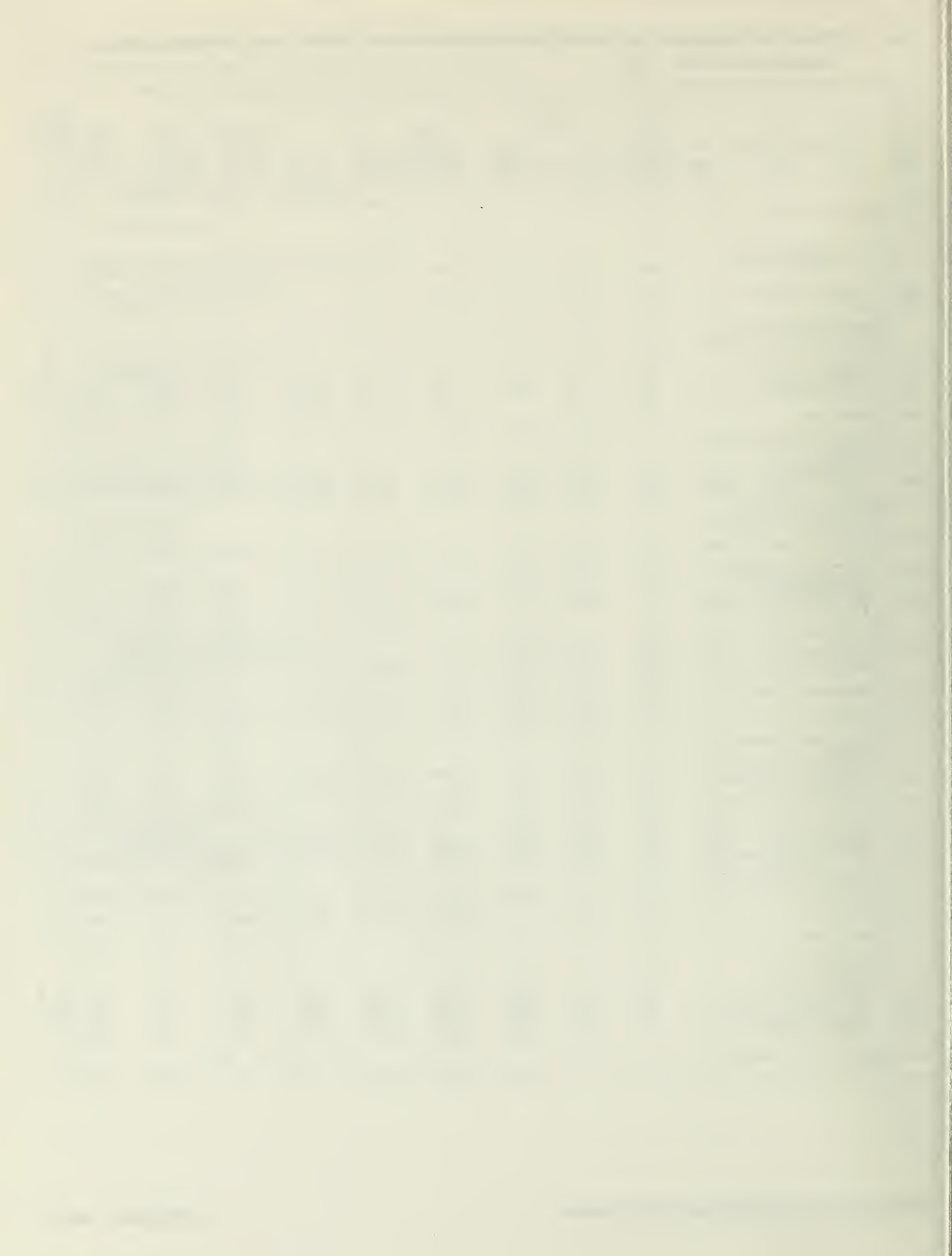
[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	6.9	18.0	1 712.8	102.3	.224	.367	.210	.013
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	3.3	13.7	1 560.6	109.0	.165	.353	.301	.008
1522	Other residential buildings	11.0	22.5	1 466.2	207.3	.144	(D)	.586	.003
1531	Operative builders	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	14.5	20.0	1 931.9	154.8	.171	.308	.366	.005
1542	Nonresidential buildings, n.e.c.	11.8	19.4	1 610.3	180.6	.141	.292	.428	.006
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	21.8	21.2	1 960.7	120.4	.207	.464	.138	.022
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	10.1	18.0	1 912.9	100.6	.217	(D)	.213	.007
1623	Water, sewer, and utility lines	31.5	20.1	1 666.1	64.9	.369	.472	.067	.029
1629	Heavy construction, n.e.c.	6.2	19.2	1 557.7	124.5	.200	.310	.128	.047
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	6.9	19.0	1 813.4	95.7	.269	.427	.084	.013
1721	Painting and paper hanging	4.1	15.5	1 727.2	47.0	.375	.236	.057	.018
1731	Electrical work	6.5	22.1	1 874.0	86.2	.334	.387	.046	.009
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	5.0	11.8	1 400.0	36.9	.367	.312	.045	.010
1742	Plastering, drywall, and insulation work	9.6	17.1	1 898.1	69.8	.291	(D)	(D)	.011
1743	Terrazzo, tile, marble, and mosaic work	6.3	26.3	2 017.5	79.0	.438	.371	(D)	.004
175	Carpentry and floor work:								
1751	Carpentry	3.5	12.7	1 632.9	66.6	.235	.494	.073	.008
1752	Floor laying and other floor work	3.4	18.7	1 696.6	120.7	.232	.495	.103	.016
1761	Roofing, siding, and sheet metal work	8.8	16.9	1 654.0	77.9	.279	.425	.051	.014
1771	Concrete work	7.8	12.0	1 514.5	53.5	.258	.401	.071	.028
1781	Water well drilling	3.9	17.7	1 783.7	102.5	.237	.524	.011	.002
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	5.4	21.4	2 198.8	50.8	.497	(D)	.017	.032
1793	Glass and glazing work	8.4	20.1	1 516.4	109.5	.266	.547	.012	.012
1794	Excavation work	4.8	14.8	1 617.6	71.0	.253	.193	.051	.017
1795	Wrecking and demolition work	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1796	Installing building equipment, n.e.c.	13.3	25.8	1 595.2	77.4	.414	.250	.027	.016
1799	Special trade contractors, n.e.c.	5.8	12.0	1 504.4	47.5	.296	.329	.092	.016
6552	Land subdividers and developers, n.e.c.	5.8	*14.3	(S)	158.6	.333	.347	.221	.009

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Geographic area and industry	Number of establish- ments	All employees**	Payroll, all employees	Value of construction work	Net value of construction work†	Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Capital expend- itures, other than land	Relative standard error of estimate (percent) for column—	
		A	B	C	D	E	F	G	H	I	B	E
	OMAHA, NE-IA MSA											
	Construction Industries and land subdividers and developers-----	1 595	12 331	255 033	1 107 181	837 290	473 362	383 820	269 891	17 685	2	2
15,16, 17	Construction Industries:											
	Building construction—General contractors and operative builders:											
152	General contractors, residential buildings:											
1521	Single-family houses-----	253	948	13 086	(D)	(D)	25 386	(D)	24 062	1 162	13	(D)
1522	Other residential buildings-----	7	68	1 378	12 392	5 710	2 590	(D)	6 682	148	(W)	(W)
1531	Operative builders-----	66	173	5 529	96 989	46 913	23 291	25 880	50 076	(D)	22	20
154	General contractors, nonresidential buildings:											
1541	Industrial buildings and warehouses-----	9	199	5 141	33 160	17 459	8 204	(D)	15 701	323	12	14
1542	Nonresidential buildings, n.e.c.-----	78	1 599	36 398	249 661	136 259	68 607	70 205	113 402	1 744	4	3
16	Heavy construction other than building construction—contractors:											
1611	Highway and street construction-----	32	580	14 419	65 262	56 613	31 358	25 846	8 649	4 085	7	3
162	Heavy construction, except highway:											
1622	Bridge, tunnel, and elevated highway construction-----	5	53	(D)	4 974	(D)	1 494	(D)	(D)	-	(W)	(D)
1623	Water, sewer, and utility lines-----	24	291	6 489	16 395	15 088	9 774	5 401	1 307	826	7	8
1629	Heavy construction, n.e.c.-----	29	279	5 987	25 150	22 290	16 224	7 149	2 860	719	21	12
17	Special trade contractors:											
1711	Plumbing, heating, and air- conditioning-----	183	1 660	41 240	141 474	125 993	69 842	56 897	15 480	2 659	5	4
1721	Painting and paper hanging-----	127	579	9 364	24 229	22 383	16 544	5 901	1 846	349	7	6
1731	Electrical work-----	158	1 530	37 222	99 976	92 813	55 602	38 253	7 163	1 177	3	3
174	Masonry, stonework, tile setting, and plastering:											
1741	Masonry, stone setting, and other stonework-----	92	424	5 718	15 966	15 015	10 659	4 508	951	340	14	17
1742	Plastering, drywall, and insulation work-----	65	703	13 814	50 436	45 214	25 471	22 962	5 222	354	5	6
1743	Terrazzo, tile, marble, and mosaic work-----	7	53	1 308	2 929	(D)	1 715	1 263	(D)	(D)	10	(D)
175	Carpentry and floor work:											
1751	Carpentry-----	122	521	6 827	26 755	24 028	10 887	14 707	2 727	318	13	18
1752	Floor laying and other floorwork-----	33	143	2 685	11 404	10 405	5 467	5 123	999	(D)	22	14
1761	Roofing, siding, and sheet metal work-----	54	675	13 367	44 961	42 499	23 332	(D)	2 462	440	11	9
1771	Concrete work-----	78	489	7 291	32 165	28 930	16 960	12 062	3 235	336	12	11
1781	Water well drilling-----	5	59	1 418	(D)	(D)	1 796	2 516	(D)	(D)	(W)	(D)
179	Miscellaneous special trade contractors:											
1791	Structural steel erection-----	*16	117	2 890	5 117	4 993	3 837	(D)	*125	(D)	20	18
1793	Glass and glazing work-----	18	134	2 774	10 421	10 308	5 348	5 726	113	31	16	21
1794	Excavation work-----	23	179	3 346	12 431	11 699	10 021	1 707	732	*952	24	11
1795	Wrecking and demolition work-----	5	68	(D)	(D)	(D)	(D)	222	(D)	(D)	(W)	(D)
1796	Installing building equipment, n.e.c.-----	15	245	7 156	14 729	14 245	10 618	(D)	484	59	6	6
1799	Special trade contractors, n.e.c.-----	81	490	5 938	19 490	17 651	13 263	6 869	1 839	*483	18	17
6552	Land subdividers and developers, n.e.c.-----	*9	*73	*1 560	*3 675	*2 491	(D)	(D)	*1 184	(S)	56	54



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North Dakota

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--Not applicable for this report.

SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for North Dakota. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the SIC Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 6,216 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$1.1 billion in total value of business done.

Most of the 6,216 construction establishments were small. Of the total, 4,408 were nonemployers, and over half of the employer establishments had less than 5 employees. The 638 construction establishments with 5 employees or more, while representing only 10 percent of all establishments, accounted for more than 74 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$937 million of total dollar value of business done. Of this amount, \$902 million were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$190 million, leaving net value of construction work of \$712 million. In addition, these establishments paid out \$368 million for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$412 million. (See Introduction and appendixes for explanation of terms.)

There were 1,808 establishments with total employment averaging 11,066 during the year. Total payroll for 1987 was \$199 million. Total hours worked by construction workers during the year were 15.2 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 4,408 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$141 million. Most of these establishments, about 77 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

1987 
1982 

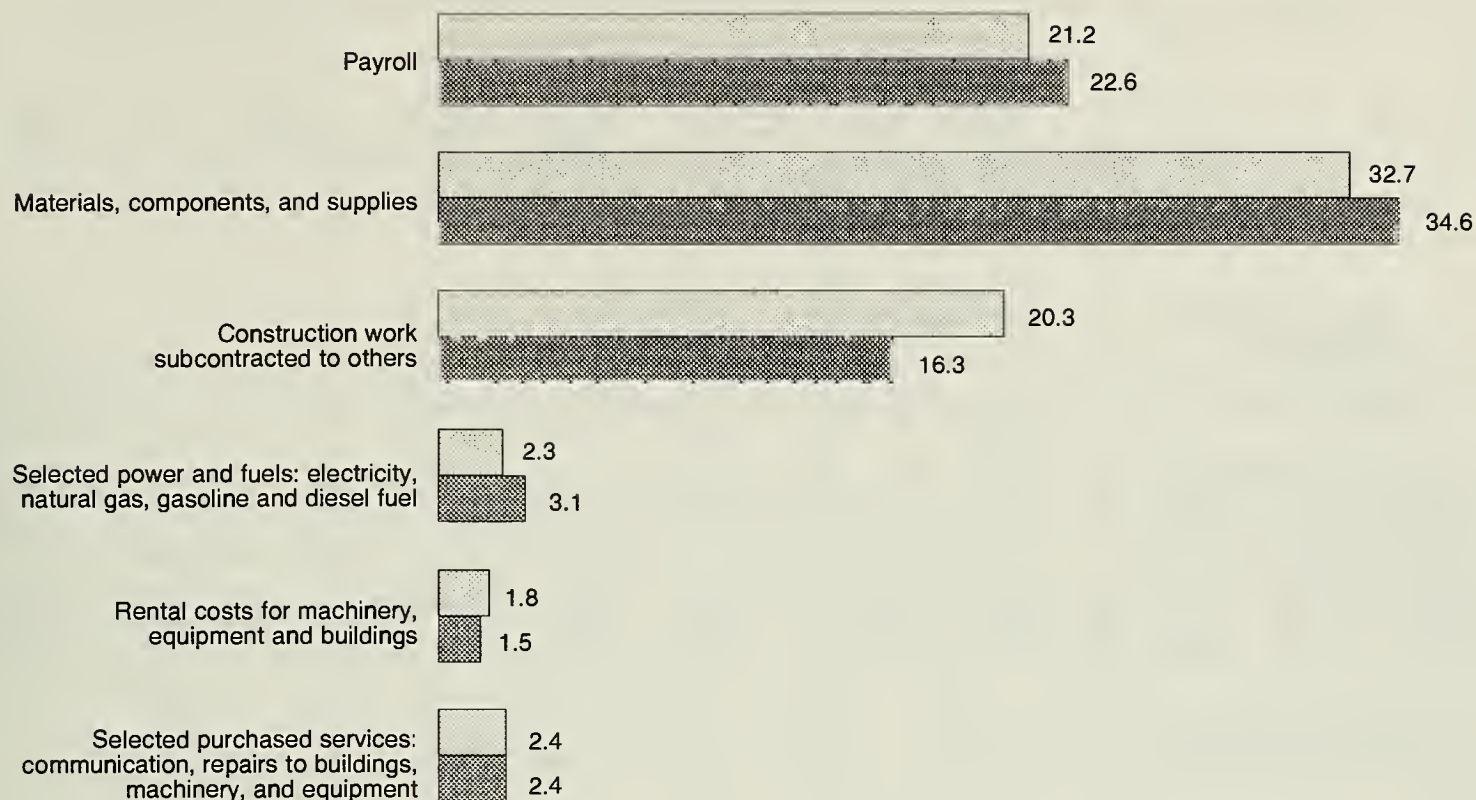


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

1987 
1982 

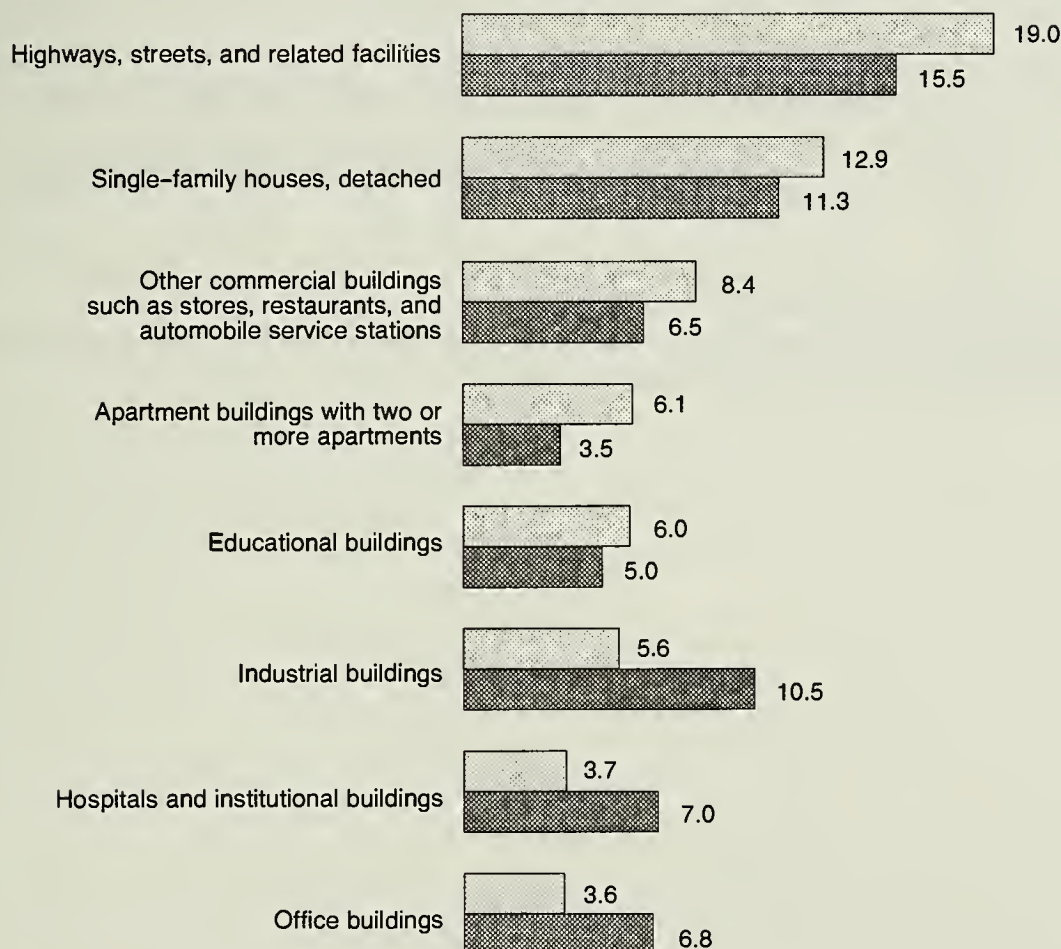


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
		Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
1987														
	Construction industries and land subdividers and developers	6 216	5 141	11 066	1 077 450	4 408	4 413	140 847	1 808	728	11 066	936 603	2	3
15, 16, 17	Construction Industries	6 127	5 055	11 054	1 066 222	4 328	4 330	129 626	1 799	725	11 054	936 596	2	3
15	Building construction—General contractors and operative builders	1 263	943	(D)	353 698	820	795	43 556	443	148	(D)	310 142	(D)	7
16	Heavy construction other than building construction—contractors	307	156	2 852	302 130	105	107	12 851	202	49	2 852	289 279	5	3
17	Special trade contractors	4 557	3 956	(D)	410 393	3 403	3 428	73 218	1 154	528	(D)	337 175	(D)	4
1711	Plumbing, heating, and air-conditioning ..	503	346	1 234	105 463	270	274	11 086	233	72	1 234	94 377	6	7
1731	Electrical work	485	338	980	65 973	267	266	9 103	218	72	980	56 870	9	9
6552	Land subdividers and developers, n.e.c.²	80	83	-	11 221	80	83	11 221	-	-	-	-	-	-
1982														
	Construction industries and land subdividers and developers	6 133	5 135	12 950	1 074 965	4 164	4 176	129 479	1 969	959	12 950	945 486	2	2
15, 16, 17	Construction Industries	6 065	5 094	12 908	1 069 816	4 110	4 139	126 403	1 955	955	12 908	943 413	3	2
15	Building construction—General contractors and operative builders	1 376	1 085	3 451	361 270	860	856	46 037	516	229	3 451	315 233	6	4
16	Heavy construction other than building construction—contractors	327	213	2 102	207 511	169	169	7 807	158	44	2 102	199 704	5	3
17	Special trade contractors	4 362	3 796	7 355	501 035	3 081	3 114	72 553	1 261	602	7 355	423 476	4	4
1711	Plumbing, heating, and air-conditioning ..	453	375	1 610	125 777	259	265	9 451	194	110	1 610	116 326	6	4
1731	Electrical work	463	325	1 511	100 366	249	244	13 508	214	81	1 511	86 858	10	9
6552	Land subdividers and developers, n.e.c.²	61	40	*37	*5 146	54	37	3 076	*7	*3	*37	*2 070	73	65

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State	6 216	5 141	11 066	1 077 450	4 408	4 413	140 847	1 808	728	11 066	936 603	2	3
\$10,000,000 or more	11	—	1 446	195 212	—	—	—	11	—	1 446	195 212	(W)	(W)
\$5,000,000 to \$9,999,999	12	(D)	537	(D)	—	—	—	12	(D)	537	(D)	(W)	(D)
\$2,500,000 to \$4,999,999	39	2	1 366	(D)	1	(D)	(D)	38	(D)	1 366	210 802	2	3
\$1,000,000 to \$2,499,999	158	8	2 256	456 255	8	6	14 525	150	5	2 256	230 928	6	11
\$500,000 to \$999,999	170	50	1 440	120 767	23	22	14 599	147	*28	1 440	106 168	12	14
 \$250,000 to \$499,999	295	115	1 519	105 369	38	36	13 058	257	79	1 519	92 311	13	13
\$100,000 to \$249,999	596	380	1 375	96 354	204	207	31 551	392	173	1 375	64 803	12	11
\$50,000 to \$99,999	655	563	535	46 867	364	380	25 352	291	183	535	21 515	15	14
\$25,000 to \$49,999	855	714	(S)	(S)	536	541	18 728	(S)	(S)	(S)	(S)	(S)	(S)
 Less than \$25,000	(S)	(S)	(S)	(S)	3 234	3 220	23 033	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	901	896	14 754	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	672	672	4 885	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	557	550	2 053	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	1 104	1 102	1 341	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State	6 133	5 135	12 950	1 074 965	4 164	4 176	129 479	1 969	959	12 950	945 486	2	2
\$10,000,000 or more	8	—	1 402	(D)	—	—	—	8	—	1 402	(D)	(W)	(D)
\$5,000,000 to \$9,999,999	14	—	1 035	(D)	—	—	—	14	—	1 035	(D)	(W)	(D)
\$2,500,000 to \$4,999,999	49	3	1 583	(D)	—	—	—	49	3	1 583	(D)	(W)	(D)
\$1,000,000 to \$2,499,999	136	24	2 504	(D)	6	3	8 817	130	*21	2 504	(D)	9	(D)
\$500,000 to \$999,999	168	50	1 564	(D)	19	20	13 415	149	*30	1 564	(D)	9	(D)
 \$250,000 to \$499,999	323	164	1 765	851 554	51	53	18 025	272	111	1 765	833 529	11	2
\$100,000 to \$249,999	651	407	1 651	104 814	180	185	27 656	471	222	1 651	77 158	10	8
\$50,000 to \$99,999	657	513	668	45 711	337	343	22 796	320	170	668	22 915	12	11
\$25,000 to \$49,999	695	661	312	24 974	508	520	17 850	187	141	312	7 124	18	14
 Less than \$25,000	3 430	3 312	464	25 680	3 063	3 052	20 920	367	260	464	4 760	15	16
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	849	848	13 479	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	651	645	4 371	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	830	829	2 337	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	733	730	733	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
		A	B	C	D	E	F	G	H
	Construction industries and land subdividers and developers -----	1 808	11 066	8 816	198 974	150 312	15 159	901 567	711 502
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses -----	214	678	553	7 400	5 894	868	45 585	36 726
1522	Other residential buildings -----	26	307	235	6 326	4 115	480	52 419	28 321
1531	Operative builders -----	53	(D)	(D)	(D)	2 320	(D)	42 617	20 601
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses -----	30	366	283	7 182	4 737	547	32 143	24 608
1542	Nonresidential buildings, n.e.c. -----	120	1 045	796	19 762	13 664	1 478	121 942	68 422
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction -----	74	1 604	1 356	36 169	29 776	2 790	176 959	150 230
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction -----	5	218	184	5 271	4 169	378	21 090	17 343
1623	Water, sewer, and utility lines -----	40	397	319	7 738	5 492	775	29 751	27 310
1629	Heavy construction, n.e.c. -----	83	633	531	14 141	11 567	703	53 911	38 408
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning -----	233	1 234	913	22 959	16 530	1 405	91 319	79 145
1721	Painting and paper hanging -----	103	410	359	6 286	5 274	429	15 108	14 740
1731	Electrical work -----	218	980	741	18 180	13 888	1 496	56 340	55 098
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework -----	75	268	234	4 028	3 416	335	12 338	11 052
1742	Plastering, drywall, and insulation work -----	60	359	301	5 473	4 267	480	16 209	15 590
1743	Terrazzo, tile, marble, and mosaic work -----	3	7	7	102	102	(D)	510	(D)
175	Carpentry and floor work:								
1751	Carpentry -----	139	387	333	3 276	2 901	462	19 577	17 725
1752	Floor laying and other floor work -----	*19	*133	*71	*1 772	*808	*124	7 706	*7 113
1761	Roofing, siding, and sheet metal work -----	67	492	381	8 493	5 748	614	34 766	32 506
1771	Concrete work -----	84	272	220	3 815	3 103	322	11 407	10 881
1781	Water well drilling -----	*35	44	31	(D)	390	36	4 254	4 194
179	Miscellaneous special trade contractors:								
1791	Structural steel erection -----	*11	252	216	3 969	3 104	270	13 557	12 826
1793	Glass and glazing work -----	7	56	35	951	614	63	4 419	(D)
1794	Excavation work -----	63	306	245	3 399	2 903	352	12 492	11 969
1795	Wrecking and demolition work -----	3	(D)	(D)	167	147	13	798	682
1796	Installing building equipment, n.e.c. -----	11	118	91	3 507	2 466	183	10 974	10 430
1799	Special trade contractors, n.e.c. -----	23	250	206	3 660	2 909	328	13 371	10 670
6552	Land subdividers and developers, n.e.c. -----	-	-	-	-	-	-	-	-

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
412 270	328 238	190 065	16 467	22 244	241 928	12 950	924 697	430 697	2	2	6	15, 16, 17
												.15
18 017	19 339	8 858	323	*419	*10 532	(S)	(S)	(S)	17	19	52	152
17 193	13 153	24 097	*310	230	5 659	232	21 918	6 559	20	18	39	1521
												1522
14 490	10 990	*22 015	(D)	(D)	*7 997	207	21 157	12 152	(D)	35	(D)	1531
10 027	14 799	7 534	389	*368	3 074	718	59 461	15 421	19	16	42	154
33 644	36 433	53 519	887	1 733	19 149	1 617	162 900	44 387	9	7	23	1541
												1542
												16
92 859	63 883	26 729	8 035	9 233	83 308	1 351	134 871	73 610	4	3	6	1611
9 765	7 722	3 747	(D)	(D)	(D)	133	9 646	4 344	(W)	(W)	(D)	162
17 308	10 372	2 440	1 271	2 672	24 058	440	34 327	19 801	20	15	34	1622
27 152	(D)	15 503	865	397	4 608	178	16 471	6 937	15	14	3	1623
												1629
												17
41 861	40 341	12 174	1 002	861	11 770	1 610	115 086	55 671	6	6	28	1711
10 720	4 046	368	175	*309	3 515	298	11 093	7 992	21	25	47	1721
30 485	25 143	1 242	809	473	17 477	1 511	84 859	44 741	9	9	39	1731
6 882	4 174	1 286	*147	*254	*499	265	9 320	5 508	18	16	55	174
11 379	5 654	618	214	*972	3 964	511	25 583	14 851	16	18	55	1741
233	(D)	(D)	(D)	-	*3	(D)	*871	*355	(W)	(D)	-	1742
												1743
9 589	9 343	1 851	*110	228	4 485	363	10 818	6 474	18	21	35	175
*3 125	*5 411	(S)	*132	(D)	*699	90	*4 706	2 580	60	64	(D)	1751
												1752
17 227	17 115	2 259	(D)	666	5 195	462	34 261	16 156	8	8	36	1761
6 402	5 408	526	201	527	3 053	479	17 565	9 731	24	21	28	1771
2 480	(D)	*60	(D)	(D)	*2 874	175	9 164	4 713	11	25	(D)	1781
7 968	(D)	*730	*152	343	*3 588	160	12 502	6 360	8	11	22	179
2 154	2 443	(D)	(D)	(D)	360	82	6 475	3 231	(W)	(D)	(D)	1791
8 591	3 986	*522	*257	*1 069	*14 504	895	52 211	34 977	25	22	45	1793
550	(D)	116	(D)	(D)	(D)	-	-	-	(D)	(W)	(D)	1794
6 825	3 605	544	126	-	403	66	4 337	2 952	17	10	-	1795
5 336	(D)	2 700	36	105	2 270	(D)	19 421	12 022	8	10	23	1796
												1799
-	-	-	-	-	-	*37	*1 821	*1 464	-	-	-	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	1 808	1 969	2 124	1 489	2	4	5	7
Proprietors and working partners	728	959	1 457	1 220	7	7	8	9
All employees**	11 066	12 950	15 438	10 171	2	2	3	6
Construction workers:								
March	6 276	7 874	9 032	5 083	3	3	3	5
May	9 474	10 554	13 838	7 936	3	3	3	5
August	10 800	13 134	16 763	11 594	2	3	4	6
November	8 715	11 256	13 840	10 524	2	3	4	9
Average	8 816	10 942	13 379	8 930	2	3	3	6
Other employees:								
March	2 210	2 002	1 910	1 088	4	4	4	9
May	2 282	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
August	2 258	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
November	2 249	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Average	2 250	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	2 482	3 216	(NA)	(NA)	4	3	(NA)	(NA)
April to June	3 936	4 381	(NA)	(NA)	3	3	(NA)	(NA)
July to September	4 955	5 825	(NA)	(NA)	3	3	(NA)	(NA)
October to December	3 785	4 736	(NA)	(NA)	3	4	(NA)	(NA)
Total hours worked	15 159	18 161	(NA)	(NA)	3	3	(NA)	(NA)
Payroll, all employees	198 974	214 100	176 758	86 892	2	2	2	6
Payroll, construction workers	150 312	173 627	145 566	74 240	2	3	2	6
Payroll, other employees	48 661	40 472	31 191	12 652	3	2	3	7
First quarter payroll, all employees	35 491	42 710	28 624	(NA)	3	3	2	(NA)
Employer costs for fringe benefits, all employees	39 380	36 187	25 286	(NA)	2	3	3	(NA)
Legally required expenditures	28 463	28 774	17 778	(NA)	2	3	3	(NA)
Voluntary expenditures	10 916	7 412	7 508	(NA)	4	4	2	(NA)
Dollar value of business done	936 603	945 486	744 582	368 333	3	2	2	6
Value of construction work ¹	901 567	924 697	718 375	358 540	3	2	2	6
Value of construction work subcontracted in from others	136 102	180 975	107 924	42 574	6	6	4	22
Land receipts ²	6 028	3 920	(NA)	(NA)	38	7	(NA)	(NA)
Other business receipts	29 007	16 868	26 207	9 793	15	8	4	12
Net value of construction†	711 502	770 385	599 072	290 410	2	2	2	7
Value added††	412 270	430 697	342 021	159 613	3	2	2	6
Selected costs	518 304	510 869	393 674	208 044	3	2	2	7
Materials, components, and supplies ³	306 709	326 952	255 922	139 914	3	3	3	8
Construction work subcontracted to others	190 065	154 311	119 303	68 130	6	2	2	7
Selected power, fuels, and lubricants	21 529	29 604	18 450	(NA)	2	3	2	(NA)
Electricity	1 960	2 400	1 755	(NA)	8	7	4	(NA)
Natural gas	1 444	1 389	587	(NA)	6	7	10	(NA)
Gasoline and diesel fuel	16 721	23 732	13 649	(NA)	3	4	3	(NA)
On highway use	10 873	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Off highway use	5 847	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	1 403	2 082	2 458	(NA)	5	4	5	(NA)
Rental cost for machinery, equipment, and buildings	16 467	13 823	10 524	(NA)	4	4	3	(NA)
For machinery and equipment	11 971	10 378	8 692	4 786	5	4	3	19
For buildings	4 496	3 444	1 833	(NA)	8	6	7	(NA)
Selected purchased services	22 840	22 961	22 236	(NA)	4	3	3	(NA)
Communication services	3 884	4 404	2 970	(NA)	4	5	8	(NA)
Repairs to buildings and other structures	805	860	940	(NA)	12	9	17	(NA)
Repairs to machinery and equipment	18 149	17 696	18 327	(NA)	4	3	2	(NA)
Ownership of construction projects:								
Value of construction work	901 567	924 697	718 375	358 540	3	2	2	6
Government owned	406 817	281 235	173 111	190 404	4	5	1	9
Federal	144 688	(NA)	(NA)	(NA)	8	(NA)	(NA)	(NA)
State and local	262 128	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
Privately owned	494 750	643 461	545 264	168 136	4	3	3	5

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	229 432	264 070	5	4
Capital expenditures, other than land -----	22 244	19 334	6	4
New -----	12 418	12 750	8	5
Used -----	9 826	6 584	10	7
Retirements and disposition of depreciable assets -----	9 747	11 591	24	12
End-of-year gross book value of depreciable assets -----	241 928	271 813	5	3
Depreciation charges during year -----	25 472	33 544	5	4
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	35 080	40 626	16	5
Capital expenditures, other than land -----	3 199	1 370	17	13
New buildings and other structures -----	1 646	815	14	17
Used buildings and other structures -----	1 552	554	33	16
Retirements and disposition of depreciable assets -----	*504	2 356	42	38
End-of-year gross book value of depreciable assets -----	37 775	39 640	15	5
Depreciation charges during year -----	2 069	3 089	12	10
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	194 351	223 443	5	4
Capital expenditures, other than land -----	19 045	17 963	7	4
New machinery and equipment, including automobiles and trucks -----	10 771	11 934	9	5
New automobiles and trucks, intended primarily for highway use -----	3 239	4 014	13	7
Used machinery and equipment, including automobiles and trucks -----	8 273	6 029	10	7
Retirements and disposition of depreciable assets -----	9 243	9 234	24	7
End-of-year gross book value of depreciable assets -----	204 153	232 172	5	4
Depreciation charges during year -----	23 402	30 455	6	5

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	1 808	2
Value of construction work	901 567	3
Establishments with inventories:		
Number	834	7
Value of construction work	613 627	4
Inventories ¹ :		
End of 1987, materials and supplies	24 455	9
End of 1986, materials and supplies	20 041	8
Establishments with no inventories:		
Number	749	7
Value of construction work	210 343	7
Establishments not reporting:		
Number	225	18
Value of construction work	77 597	21

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—								
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees	1,000 employees or more
1987										
Number of establishments	1 808	1 169	373	162	80	16	6	1	-	-
All employees**	11 066	2 138	2 273	2 109	2 202	1 023	1 320	(D)	-	-
Payroll, all employees	198 974	25 228	33 292	40 781	46 528	21 573	31 570	(D)	-	-
Construction worker hours (thousands)	15 159	2 325	3 037	2 608	3 088	1 686	2 412	(D)	-	-
Dollar value business done	936 603	141 957	169 528	164 707	218 576	123 390	118 443	(D)	-	-
Value of construction work ¹	901 567	136 738	156 296	370 757	(D)	237 775	(D)	(D)	-	-
Net value of construction work†	711 502	112 969	124 794	133 172	154 651	82 869	103 045	(D)	-	-
Value added††	412 270	67 868	77 795	77 374	84 241	44 315	60 676	(D)	-	-
Cost of materials, components, supplies, and fuels	328 238	48 659	56 905	61 991	75 700	84 981	(D)	(D)	-	-
Cost of construction work subcontracted to others	190 065	23 769	31 501	82 933	(D)	51 861	(D)	(D)	-	-
Rental cost for machinery, equipment, and buildings	16 467	1 605	2 094	4 375	2 126	3 594	2 673	(D)	-	-
Capital expenditures, other than land	22 244	3 107	2 450	4 247	4 729	2 700	5 009	(D)	-	-
End-of-year gross book value of depreciable assets	241 928	26 814	53 085	38 444	41 588	37 505	44 489	(D)	-	-
1982										
All employees**	12 950	2 633	2 302	2 374	3 121	1 128	1 392	(D)	-	-
Value of construction work ¹	924 697	124 999	131 256	157 543	250 959	127 576	132 363	(D)	-	-
Value added††	430 697	63 985	62 049	78 076	103 971	55 043	67 571	(D)	-	-
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)										
All employees**	2	6	10	10	5	(W)	(W)	(D)	-	-
Net value of construction work†	2	8	11	8	4	(W)	(W)	(D)	-	-
Capital expenditures, other than land	6	23	32	20	13	6	(W)	(D)	-	-

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments -----	1 808	(S)	(S)	291	392	257	147	150	38	12	11
All employees** -----	11 066	(S)	(S)	535	1 375	1 519	1 440	2 256	1 366	537	1 446
Payroll, all employees -----	198 974	(S)	(S)	4 739	15 820	25 661	23 944	45 926	28 856	12 977	37 178
Construction worker hours (thousands) -----	15 159	(S)	(S)	647	1 654	1 780	2 010	2 900	1 921	933	2 764
Dollar value of business done -----	936 603	(S)	(S)	21 515	64 803	92 311	106 168	230 928	210 802	(D)	195 212
Value of construction work ¹ -----	901 567	(S)	(S)	21 197	62 723	88 184	101 153	214 763	130 936	267 832	(D)
Net value of construction work† -----	711 502	(S)	(S)	20 315	57 299	82 218	85 664	161 675	103 118	48 263	139 091
Value added†† -----	412 270	(S)	(S)	11 262	32 884	55 281	47 719	97 958	82 676	(D)	76 112
Cost of materials, components, supplies, and fuels -----	328 238	(S)	(S)	9 275	26 343	31 063	42 618	74 450	49 130	89 800	(D)
Cost of construction work subcontracted to others -----	190 065	(S)	(S)	882	5 424	5 966	15 489	53 088	27 818	80 478	(D)
Rental cost for machinery, equipment, and buildings -----	16 467	(S)	(S)	114	1 409	1 129	1 581	2 960	1 957	2 358	4 658
Capital expenditures, other than land -----	22 244	(S)	(S)	936	2 176	1 842	2 345	3 226	3 733	1 271	6 651
End-of-year gross book value of depreciable assets -----	241 928	(S)	(S)	7 444	22 356	25 254	27 295	46 711	31 928	19 104	59 803
1982											
All employees** -----	12 950	464	312	668	1 651	1 765	1 564	2 504	1 583	1 035	1 402
Value of construction work ¹ -----	924 697	4 691	7 084	22 718	76 054	89 322	98 999	187 979	167 991	104 524	165 334
Value added†† -----	430 697	2 521	3 972	12 226	40 759	47 203	49 822	84 848	64 586	46 489	78 268
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	2	(S)	(S)	15	12	13	12	6	2	(W)	(W)
Net value of construction work† -----	2	(S)	(S)	14	12	13	12	8	2	(W)	(W)
Capital expenditures, other than land -----	6	(S)	(S)	38	35	35	25	18	15	20	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column--			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹ -----	901 567	489 670	245 486	131 555	3	4	3	6
Building construction -----	533 876	299 056	157 834	75 730	4	6	4	12
Single-family houses-----	136 231	87 636	32 935	15 659	11	16	13	12
Single-family houses, detached-----	116 226	71 772	30 802	13 651	11	16	13	12
Single-family houses, attached-----	20 004	15 863	2 133	2 008	20	25	25	31
Apartment buildings with two or more apartments-----	55 442	43 528	8 173	3 740	19	24	12	34
Other residential buildings, including hotels and motels-----	20 407	4 400	4 028	*11 977	31	22	3	52
Hotels and motels-----	12 770	3 994	2 480	*6 294	35	24	2	69
Other residential buildings, excluding hotels and motels-----	*7 637	*405	1 547	(S)	59	48	6	(S)
Office buildings-----	32 253	15 100	9 844	7 309	9	13	15	15
Other commercial buildings such as stores, restaurants, and automobile service stations-----	75 487	44 827	22 091	8 569	6	8	8	17
Industrial buildings and warehouses-----	77 362	42 486	24 193	10 682	6	8	7	15
Industrial buildings-----	50 894	27 860	15 244	7 789	9	12	11	19
Warehouses-----	26 468	14 625	8 949	2 893	5	7	3	14
Religious buildings-----	8 909	3 545	4 291	1 072	12	22	14	20
Educational buildings-----	53 989	28 013	21 301	4 674	8	10	14	26
Hospitals and institutional buildings-----	33 674	9 293	19 744	4 637	8	14	7	26
Farm buildings-----	18 524	11 586	3 423	3 514	15	16	23	21
Other nonresidential buildings-----	20 342	8 642	7 811	3 897	18	12	32	38
Land development for buildings-----	(S)	(NA)	(NA)	(NA)	(S)	(NA)	(NA)	(NA)
Nonbuilding construction -----	334 091	190 614	87 652	55 825	3	4	5	4
Highways, streets, and related facilities-----	171 694	94 829	46 814	30 051	3	3	5	5
Bridges, tunnels, and elevated highways-----	21 739	11 100	(D)	(D)	2	4	(D)	(D)
Power and communication transmission lines, towers, and related facilities-----	17 414	11 700	4 728	985	16	20	21	24
Sewers, water mains, and related facilities-----	33 661	23 970	5 169	4 521	10	6	19	32
Sewers, sewer lines, and related facilities-----	12 066	6 858	2 657	2 550	16	11	21	38
Water mains and related facilities-----	21 594	17 111	2 511	1 970	8	5	27	33
Heavy industrial facilities-----	24 099	5 308	(D)	(D)	(W)	1	(D)	(D)
Sewage treatment and water treatment plants-----	21 927	19 086	2 791	*49	11	11	28	57
Other nonbuilding construction-----	43 557	24 621	14 109	4 831	22	(S)	(S)	(S)
Construction work, n.s.k. -----	33 599	(NA)	(NA)	(NA)	14	(NA)	(NA)	(NA)
1982								
Value of construction work ¹ -----	924 697	734 163	(NA)	190 533	2	2	(NA)	3
Building construction -----	602 113	504 707	(NA)	97 406	2	3	(NA)	3
Single-family houses-----	122 451	92 786	(NA)	29 665	7	8	(NA)	8
Single-family houses, detached-----	104 252	76 249	(NA)	28 002	8	9	(NA)	8
Single-family houses, attached-----	18 199	16 536	(NA)	1 663	8	6	(NA)	16
Apartment buildings with two or more apartments-----	32 424	25 813	(NA)	6 610	6	8	(NA)	11
Other residential buildings, including hotels and motels-----	21 269	19 824	(NA)	1 445	9	10	(NA)	14
Hotels and motels-----	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Other residential buildings, excluding hotels and motels-----	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Office buildings-----	63 257	50 974	(NA)	12 283	3	3	(NA)	5
Other commercial buildings such as stores, restaurants, and automobile service stations-----	59 663	47 950	(NA)	11 712	5	5	(NA)	9
Industrial buildings and warehouses-----	133 482	120 749	(NA)	12 732	6	6	(NA)	11
Industrial buildings-----	96 679	87 946	(NA)	8 732	7	7	(NA)	16
Warehouses-----	36 803	32 803	(NA)	4 000	12	10	(NA)	7
Religious buildings-----	6 885	4 760	(NA)	2 125	12	15	(NA)	12
Educational buildings-----	46 556	37 297	(NA)	9 258	5	6	(NA)	7
Hospitals and institutional buildings-----	64 733	59 270	(NA)	5 463	3	2	(NA)	18
Farm buildings-----	32 604	28 939	(NA)	3 664	19	22	(NA)	19
Amusement, social, and recreational buildings-----	4 569	3 573	(NA)	995	20	23	(NA)	28
Other nonresidential buildings-----	14 220	12 772	(NA)	1 454	7	8	(NA)	22
Nonbuilding construction -----	254 833	178 314	(NA)	76 518	2	3	(NA)	3
Highways, streets, and related facilities-----	143 449	88 387	(NA)	55 062	3	3	(NA)	3
Bridges, tunnels, and elevated highways-----	11 696	10 707	(NA)	988	2	2	(NA)	18
Tunnels-----	2 020	(D)	(NA)	(D)	10	(D)	(NA)	(D)
Bridges and elevated highways-----	9 675	(D)	(NA)	(D)	2	(D)	(NA)	(D)
Power and communication transmission lines, towers, and related facilities-----	16 685	12 588	(NA)	4 097	10	11	(NA)	8
Sewers, water mains, and related facilities-----	32 723	27 061	(NA)	5 661	7	9	(NA)	8
Sewers, sewer lines, and related facilities-----	16 865	13 703	(NA)	3 161	8	7	(NA)	10
Water mains and related facilities-----	15 857	13 358	(NA)	2 499	14	15	(NA)	11
Heavy industrial facilities-----	8 872	(D)	(NA)	(D)	4	(D)	(NA)	(D)
Oilfields-----	17 249	10 867	(NA)	6 381	12	9	(NA)	16
Other nonbuilding construction-----	24 159	(D)	(NA)	(D)	11	(D)	(NA)	(D)
Construction work, n.s.k. -----	67 750	51 141	(NA)	16 608	9	11	(NA)	6

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction industries and land subdividers and developers -----	1 808	8 816	15 159	6 276	2 482	9 474	3 936
15, 16, 17	Construction industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	214	553	868	512	225	629	212
1522	Other residential buildings -----	26	235	480	197	108	210	108
1531	Operative builders -----	53	(D)	(D)	134	33	149	49
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	30	283	547	179	97	240	116
1542	Nonresidential buildings, n.e.c. -----	120	796	1 478	570	249	809	355
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	74	1 356	2 790	469	197	1 541	773
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	5	184	378	57	(D)	217	105
1623	Water, sewer, and utility lines -----	40	319	775	230	113	285	169
1629	Heavy construction, n.e.c. -----	83	531	703	375	106	804	221
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	233	913	1 405	819	330	946	357
1721	Painting and paper hanging -----	103	359	429	275	65	354	109
1731	Electrical work -----	218	741	1 496	620	281	665	333
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	75	234	335	169	52	240	96
1742	Plastering, drywall, and insulation work --	60	301	480	233	106	298	118
1743	Terrazzo, tile, marble, and mosaic work --	3	7	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:							
1751	Carpentry -----	139	333	462	296	109	357	128
1752	Floor laying and other floor work -----	*19	*71	*124	32	*14	*98	*45
1761	Roofing, siding, and sheet metal work -----	67	381	614	266	85	365	145
1771	Concrete work -----	84	220	322	112	34	291	105
1781	Water well drilling -----	*35	31	36	(D)	(D)	(D)	(D)
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	*11	216	270	267	61	334	123
1793	Glass and glazing work -----	7	35	63	32	14	36	15
1794	Excavation work -----	63	245	352	173	*57	238	95
1795	Wrecking and demolition work -----	3	(D)	13	8	3	8	3
1796	Installing building equipment, n.e.c. -----	11	91	183	94	48	90	46
1799	Special trade contractors, n.e.c. -----	23	206	328	130	50	224	88
6552	Land subdividers and developers, n.e.c. --	-	-	-	-	-	-	-

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
10 800	4 955	8 715	3 785	2	3	3	4	3	3	2	3	2	3	15, 16, 17
														15
597	246	475	185	17	27	22	33	20	26	17	27	19	30	152
264	131	268	131	22	23	12	15	14	20	23	24	35	33	1521
(D)	56	(D)	62	27	30	29	36	28	31	26	27	28	31	1522
														1531
														154
430	203	283	130	19	23	16	23	19	26	22	22	21	22	1541
990	473	817	400	9	13	9	13	8	12	10	14	10	14	1542
														16
2 136	1 169	1 276	649	4	5	9	16	4	5	4	6	4	5	1611
														162
342	182	123	(D)	(W)	(W)	(W)	(D)	(W)	(W)	(W)	(W)	(W)	(D)	1622
403	273	360	218	19	23	24	29	21	27	16	20	17	21	1623
468	206	476	168	14	8	18	6	16	8	17	11	12	8	1629
														17
954	371	931	347	7	10	8	11	7	10	7	10	7	10	1711
498	163	310	90	18	16	26	20	19	15	15	19	19	20	1721
873	456	808	425	8	12	9	13	9	13	9	12	9	11	1731
														174
														1741
287	101	239	83	19	31	21	24	27	36	21	32	21	36	1742
352	136	322	118	16	19	15	17	15	19	19	21	17	21	1743
(D)	(D)	10	(D)	(W)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(W)	(D)	175
372	115	306	107	18	21	20	23	19	22	16	21	19	20	1751
*106	*46	*48	17	55	63	40	42	72	74	64	72	41	37	1752
461	191	433	192	7	13	13	17	7	13	8	12	7	14	1761
250	99	225	83	24	22	32	30	22	21	23	26	26	27	1771
36	10	43	13	12	8	(D)	(D)	(D)	(D)	24	30	17	3	1781
														179
127	41	135	44	9	9	5	6	6	8	17	26	14	14	1791
37	16	37	17	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	1793
284	110	283	89	22	32	27	43	22	33	23	31	23	32	1794
8	3	(D)	3	(D)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(D)	(W)	1795
97	46	85	43	16	23	16	22	13	20	18	26	18	25	1796
252	95	221	94	7	12	9	17	8	14	7	11	7	10	1799
-	-	-	-	-	-	-	-	-	-	-	-	-	-	6552

Table 11. Selected Industry Ratios for Establishments With Payroll in This State: 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers-----	6.1	18.0	1 719.5	102.3	.221	.364	.211	.018
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses-----	3.2	10.9	1 569.6	82.4	.162	.424	.194	.007
1522	Other residential buildings-----	11.8	20.6	2 042.6	223.1	.121	.251	.460	.006
1531	Operative builders-----	(D)	(D)	(D)	(D)	(D)	.258	.517	(D)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses-----	12.2	19.6	1 932.9	113.6	.223	.460	.234	.012
1542	Nonresidential buildings, n.e.c.-----	8.7	18.9	1 856.8	153.2	.162	.299	.439	.007
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction-----	21.7	22.5	2 057.5	130.5	.204	.361	.151	.045
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction-----	43.6	24.2	2 054.3	114.6	.250	.366	.178	(D)
1623	Water, sewer, and utility lines-----	9.9	19.5	2 429.5	93.3	.260	.349	.082	.043
1629	Heavy construction, n.e.c.-----	7.6	22.3	1 323.9	101.5	.262	(D)	.288	.016
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning-----	5.3	18.6	1 538.9	100.0	.251	.442	.133	.011
1721	Painting and paper hanging-----	4.0	15.3	1 195.0	42.1	.416	.268	.024	.012
1731	Electrical work-----	4.5	18.6	2 018.9	76.0	.323	.446	.022	.014
174	Masonry, stone work, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework-----	3.6	15.0	1 431.6	52.7	.326	.338	.104	.012
1742	Plastering, drywall, and insulation work-----	6.0	15.2	1 594.7	53.9	.338	.349	.038	.013
1743	Terrazzo, tile, marble, and mosaic work-----	2.3	14.6	(D)	72.9	.200	(D)	(D)	(D)
175	Carpentry and floor work:								
1751	Carpentry-----	2.8	8.5	1 387.4	58.8	.167	.477	.095	.006
1752	Floor laying and other floor work-----	*7.0	*13.3	*1 746.5	*108.5	.230	.702	(S)	.017
1761	Roofing, siding, and sheet metal work-----	7.3	17.3	1 611.5	91.2	.244	.492	.065	(D)
1771	Concrete work-----	3.2	14.0	1 463.6	51.8	.334	.474	.046	.018
1781	Water well drilling-----	*1.3	(D)	1 161.3	137.2	(D)	(D)	.014	(D)
179	Miscellaneous special trade contractors:								
1791	Structural steel erection-----	*22.9	15.8	1 250.0	62.8	.293	(D)	.054	.011
1793	Glass and glazing work-----	8.0	17.0	1 800.0	126.3	.215	.553	(D)	(D)
1794	Excavation work-----	4.9	11.1	1 436.7	51.0	.272	.319	.042	.021
1795	Wrecking and demolition work-----	(D)	(D)	(D)	(D)	.209	(D)	.145	(D)
1796	Installing building equipment, n.e.c.-----	10.7	29.7	2 011.0	120.6	.320	.329	.050	.011
1799	Special trade contractors, n.e.c.-----	10.9	14.6	1 592.2	64.9	.274	(D)	.202	.003
6552	Land subdividers and developers, n.e.c.-----	-	-	-	-	-	-	-	-

Table 12. Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987

[Not applicable]

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South Dakota

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--Not applicable for this report.

SUMMARY OF FINDINGS

This report provides results from the 1987 Census of Construction Industries for South Dakota. The report includes data for construction establishments with payroll and shows limited data for establishments with no payroll (nonemployers). (Establishments with no payroll are, for the most part, companies owned and operated by a single person.)

Establishments covered in this report were primarily engaged in contract construction, construction on their own account for sale, or in subdividing real property into lots, as defined in the 1987 Standard Industrial Classification (SIC) Manual. The SIC Manual defines construction in three broad types: (1) building construction by general contractors or operative builders; (2) heavy construction (highways, power plants, etc.) done by general contractors and selected special trade contractors; and, (3) construction done by special trade contractors such as electricians, plumbers and painters. In addition, this census also includes one industry classified under "Real Estate" in the SIC Manual, SIC 6552, Land Subdividers and Developers, Except Cemeteries.

During 1987, there were 6,533 establishments in this State operating in the construction industries or as land subdividers and developers. These establishments accounted for \$936 million in total value of business done.

Most of the 6,533 construction establishments were small. Of the total, 4,881 were nonemployers, and over half of the employer establishments had less than 5 employees. The 543 construction establishments with 5 employees or more, while representing only 8 percent of all establishments, accounted for more than 67 percent of the total value of business done.

ESTABLISHMENTS WITH PAYROLL

During 1987, the establishments with paid employees accounted for \$763 million of total dollar value of business done. Of this amount, \$725 million were for the value of construction work. Their payments for construction work subcontracted to others amounted to \$142 million, leaving net value of construction work of \$582 million. In addition, these establishments paid out \$295 million for the cost of materials, fuels, power, rental of equipment and buildings,

and the cost of selected purchased services. Value added for 1987 was \$353 million. (See Introduction and appendixes for explanation of terms.)

There were 1,652 establishments with total employment averaging 9,452 during the year. Total payroll for 1987 was \$152 million. Total hours worked by construction workers during the year were 12.6 million hours.

The data in this report covering establishments with payroll were obtained from a sample survey. A construction establishment is defined as a relatively permanent office, or other place of business, where the usual business activities related to construction are conducted. A separate census report was required from each sample establishment covering domestic operations. Separate reports were not required for each project or construction site.

In 1987, the value of construction work was collected to better measure actual construction activity done during the year. Construction receipts, as reported in earlier censuses, may have included the value of work done before or after the calendar year and may have also excluded work done by builders for their own use. All dollar values are shown in current dollars for the years specified and have not been adjusted for inflation.

Since the data in this report covering employer establishments are estimated from a sample survey, they are subject to sampling variability, as well as errors of response and nonreporting. The relative standard errors shown in the tables are measures of sampling variability. Descriptions of the sampling, estimating procedures, and data reliability are included in the Introduction.

ESTABLISHMENTS WITHOUT PAYROLL

During 1987, there were 4,881 establishments with no payroll classified as construction or land subdividers and developers. According to administrative records of the Federal Government, their value of business done during 1987 was \$173 million. Most of these establishments, about 77 percent, were special trade contractors.

For the establishments without payroll, only information on total value of business done was available from administrative records. Statistics on establishments without payroll are shown in tables 1 and 2 of this report.

Figure 1. **Selected Costs Per Dollar Value of Business Done**
(Percent)

1987
1982

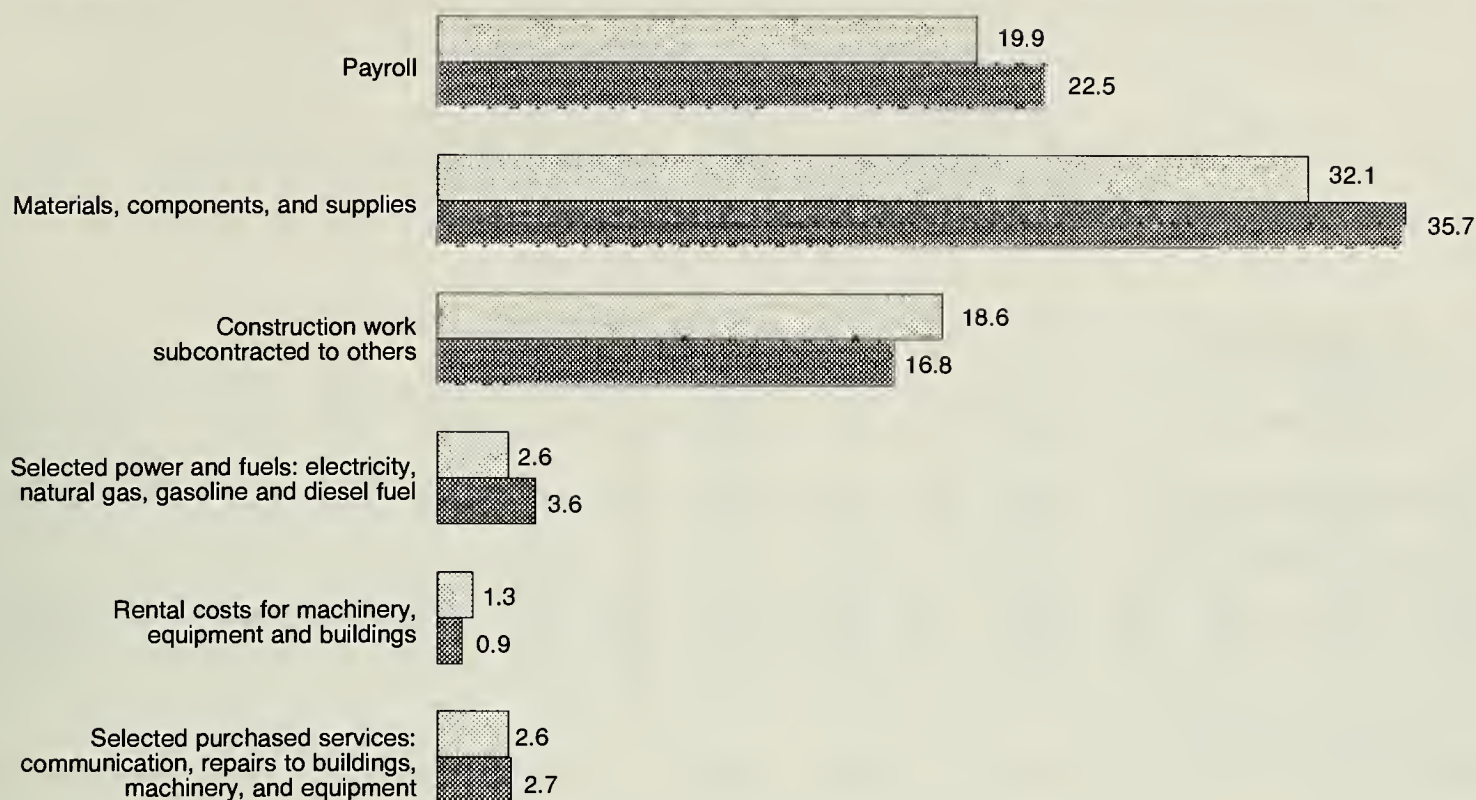


Figure 2. **Value of Construction Work by Type of Construction**
(Percent)

1987
1982

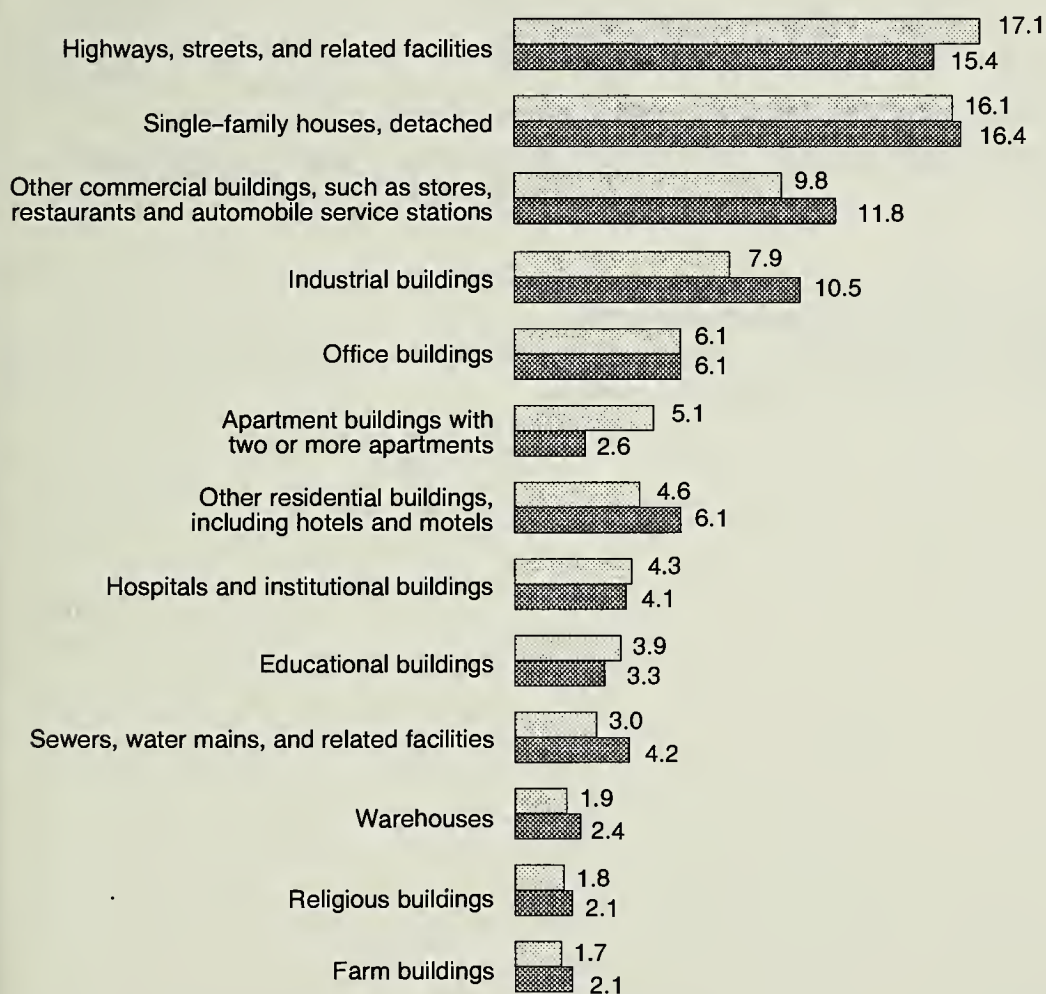


Table 1. Summary Statistics for Establishments With and Without Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	All establishments				Establishments without payroll			Establishments with payroll				Relative standard error of estimate (percent) for column—	
			Proprie- tors and working partners	All em- ployees**	Dollar value of business done		Proprie- tors and working partners	Dollar value of business done		Proprie- tors and working partners	All em- ployees**	Dollar value of business done¹		
		A	B	C	D	E	F	G	H	I	J	K	J	K
	1987													
15, 16, 17	Construction Industries and land subdividers and developers -----	6 533	5 601	9 452	936 284	4 881	4 882	173 401	1 652	719	9 452	762 883	3	2
	Construction Industries -----	6 441	5 528	(D)	(D)	4 801	4 812	165 585	1 640	716	(D)	(D)	(D)	(D)
15	Building construction—General contractors and operative builders ----	1 326	1 049	2 677	339 210	897	865	56 704	429	184	2 677	282 506	5	4
16	Heavy construction other than building construction— contractors-----	335	243	(D)	(D)	139	136	10 478	196	107	(D)	(D)	(D)	(D)
17	Special trade contractors -----	4 780	4 236	5 036	403 502	3 765	3 811	98 403	1 015	425	5 036	305 099	8	6
1711	Plumbing, heating, and air-conditioning --	545	425	1 191	95 070	330	337	14 905	215	88	1 191	80 165	8	7
1731	Electrical work-----	457	359	730	51 411	287	288	10 237	170	71	730	41 174	11	10
6552	Land subdividers and developers, n.e.c.²-----	86	70	(D)	(D)	80	70	7 816	6	-	(D)	(D)	(D)	(D)
	1982													
15, 16, 17	Construction industries and land subdividers and developers -----	6 323	5 446	8 866	648 496	4 600	4 639	124 486	1 723	807	8 866	524 010	3	3
	Construction industries -----	6 254	5 401	(D)	(D)	4 540	4 595	120 668	1 714	806	(D)	(D)	(D)	(D)
15	Building construction—General contractors and operative builders ----	1 370	1 110	2 560	238 739	883	895	39 052	487	215	2 560	199 687	6	5
16	Heavy construction other than building construction— contractors-----	365	248	(D)	(D)	200	202	9 912	165	46	(D)	(D)	(D)	(D)
17	Special trade contractors -----	4 519	4 043	4 677	290 320	3 457	3 498	71 704	1 062	545	4 677	218 616	5	5
1711	Plumbing, heating, and air-conditioning --	529	423	1 002	71 012	353	361	13 377	176	62	1 002	57 635	10	8
1731	Electrical work-----	459	356	778	37 955	285	287	8 523	174	69	778	29 432	16	13
6552	Land subdividers and developers, n.e.c.²-----	66	44	(D)	(D)	60	44	3 818	*6	-	(D)	(D)	(D)	(D)

Note: Number of establishments in this and subsequent tables represent those in business at any time during the year.

¹For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

²For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Table 2. Summary Statistics by Size Class of Dollar Value of Business Done for Establishments With and Without Payroll : 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Receipts size	All establishments				Establishments without payroll ¹			Establishments with payroll				Relative standard error of estimate (percent) for column—	
	Number	Proprietors and working partners	All employees**	Dollar value of business done	Number	Proprietors and working partners	Dollar value of business done	Number	Proprietors and working partners	All employees**	Dollar value of business done ²		
	A	B	C	D	E	F	G	H	I	J	K	J	K
1987													
The State	6 533	5 601	9 452	936 284	4 881	4 882	173 401	1 652	719	9 452	762 883	3	2
\$10,000,000 or more	6	(D)	737	120 812	-	-	-	6	(D)	737	120 812	(W)	(W)
\$5,000,000 to \$9,999,999	13	-	606	92 119	-	-	-	13	-	606	92 119	(W)	(W)
\$2,500,000 to \$4,999,999	27	(D)	788	89 755	-	-	-	27	(D)	788	89 755	4	6
\$1,000,000 to \$2,499,999	115	23	1 846	175 975	5	6	9 292	110	17	1 846	166 683	6	8
\$500,000 to \$999,999	176	82	1 489	122 029	35	35	24 061	141	47	1 489	97 968	12	12
\$250,000 to \$499,999	318	185	1 495	111 381	62	59	20 840	256	126	1 495	90 541	14	14
\$100,000 to \$249,999	759	541	1 568	117 719	274	269	40 581	485	272	1 568	77 138	11	9
\$50,000 to \$99,999	(S)	(S)	(S)	(S)	439	449	31 194	(S)	(S)	(S)	(S)	(S)	(S)
\$25,000 to \$49,999	(S)	(S)	(S)	(S)	629	642	22 197	(S)	(S)	(S)	(S)	(S)	(S)
Less than \$25,000	(S)	(S)	(S)	(S)	3 437	3 422	25 237	(S)	(S)	(S)	(S)	(S)	(S)
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	1 013	1 006	16 526	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	729	725	5 226	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,000 to \$4,999	(NA)	(NA)	(NA)	(NA)	582	583	2 131	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,000	(NA)	(NA)	(NA)	(NA)	1 113	1 108	1 353	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1982													
The State	6 323	5 446	8 866	648 496	4 600	4 639	124 486	1 723	807	8 866	524 010	3	3
\$10,000,000 or more	5	-	658	74 934	-	-	-	5	-	658	74 934	(W)	(W)
\$5,000,000 to \$9,999,999	9	-	712	58 030	-	-	-	9	-	712	58 030	(W)	(W)
\$2,500,000 to \$4,999,999	18	-	559	(D)	-	-	-	18	-	559	(D)	(W)	(D)
\$1,000,000 to \$2,499,999	67	4	1 377	(D)	6	3	9 490	61	*1	1 377	(D)	7	(D)
\$500,000 to \$999,999	109	24	1 156	223 791	8	7	5 362	101	*17	1 156	218 429	9	5
\$250,000 to \$499,999	253	97	1 387	86 701	41	44	13 911	212	53	1 387	72 790	12	11
\$100,000 to \$249,999	578	379	1 555	89 605	177	181	26 680	401	198	1 555	62 925	11	9
\$50,000 to \$99,999	701	595	712	50 480	366	379	25 475	335	216	712	25 005	13	10
\$25,000 to \$49,999	780	683	322	27 426	574	590	19 807	206	93	322	7 619	14	13
Less than \$25,000	3 802	3 663	427	28 038	3 428	3 435	23 761	374	228	427	4 277	10	10
\$10,000 to \$24,999	(NA)	(NA)	(NA)	(NA)	992	1 005	15 480	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$5,000 to \$9,999	(NA)	(NA)	(NA)	(NA)	728	724	4 874	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
\$2,500 to \$4,999	(NA)	(NA)	(NA)	(NA)	926	923	2 625	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Less than \$2,500	(NA)	(NA)	(NA)	(NA)	782	783	782	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

Note: Underscored data fields include data from adjoining lines which have been withheld to avoid disclosing data for individual companies.

¹For establishments without payroll, may include data for an unknown number of cemetery subdividers and developers.

²For establishments with payroll in 1987, the dollar value of business done includes the value of construction work which has a measure of construction activity where no receipts were received. In earlier censuses, construction receipts only were collected.

Table 3. General Statistics for Establishments With Payroll by Industry: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	1987							
		Number of establish- ments	Employees**		Payroll		Construction worker hours (thousands)	Value of construction work	Net value of construction work†
			All	Construction workers	All employees	Construction workers			
		A	B	C	D	E	F	G	H
	Construction industries and land subdividers and developers -----	1 652	9 452	7 593	152 067	113 805	12 615	724 664	582 446
15, 16, 17	Construction Industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses-----	221	700	634	6 845	6 134	892	33 376	28 389
1522	Other residential buildings-----	9	329	278	4 472	3 055	497	55 778	29 637
1531	Operative builders-----	35	210	*117	3 112	1 102	16	21 888	12 112
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses-----	16	227	171	4 177	2 852	242	21 672	13 734
1542	Nonresidential buildings, n.e.c.-----	148	1 211	962	21 902	15 532	1 777	140 492	85 500
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction-----	104	1 160	979	25 123	20 304	1 760	117 959	101 579
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction-----	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines-----	52	382	301	6 449	4 774	573	27 659	26 223
1629	Heavy construction, n.e.c.-----	38	137	125	1 801	1 618	213	8 293	(D)
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning-----	215	1 191	841	19 222	13 616	1 441	76 583	72 003
1721	Painting and paper hanging-----	77	243	198	2 969	2 427	302	9 473	9 182
1731	Electrical work-----	170	730	579	11 229	8 935	841	40 111	39 241
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework-----	50	292	265	4 566	4 235	345	9 167	9 146
1742	Plastering, drywall, and insulation work-----	37	172	144	2 535	1 950	235	11 881	10 857
1743	Terrazzo, tile, marble, and mosaic work-----	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:								
1751	Carpentry-----	129	386	355	3 827	3 507	657	21 980	18 775
1752	Floor laying and other floor work-----	*26	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work-----	59	483	373	8 999	5 280	668	32 451	28 516
1771	Concrete work-----	105	642	535	9 284	7 435	895	40 870	36 936
1781	Water well drilling-----	11	26	19	344	270	21	1 892	1 871
179	Miscellaneous special trade contractors:								
1791	Structural steel erection-----	*11	85	73	1 721	1 499	*162	6 023	(D)
1793	Glass and glazing work-----	15	121	74	2 092	1 082	131	6 094	(D)
1794	Excavation work-----	*26	164	130	3 471	2 470	276	11 676	11 602
1795	Wrecking and demolition work-----	-	-	-	-	-	-	-	-
1796	Installing building equipment, n.e.c.-----	21	*128	*114	1 743	1 321	*257	5 495	5 420
1799	Special trade contractors, n.e.c.-----	60	297	225	4 069	2 846	274	16 554	15 959
6552	Land subdividers and developers, n.e.c.-----	6	(D)	(S)	(D)	(S)	(S)	(D)	(D)

†In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

1987—Con.						1982			Relative standard error of estimate (percent) for column—			1987 SIC code
Value added††	Cost of materials, components, supplies, and fuels	Cost of construction work sub-contracted to others	Rental cost of machinery, equipment, and buildings	Capital expenditures, other than land	End-of-year gross book value of depreciable assets	All employees**	Total construction receipts¹	Value added††				
I	J	K	L	M	N	O	P	Q	B	H	M	
352 553	264 724	142 217	9 600	13 816	182 169	8 866	507 258	228 891	3	3	7	15, 16, 17
												15
15 667 16 850	14 084 (D)	4 986 26 141	191 191	*774 105	6 690 1 630	906 214	48 303 21 625	18 807 6 060	16 (W)	15 (W)	45 (W)	152 1521 1522
3 168	9 718	9 775	(S)	(D)	9 537	(S)	(S)	(D)	28	25	(D)	1531
7 861 45 219	(D) 42 928	7 937 54 992	163 615	305 1 389	4 922 18 432	232 1 147	12 970 104 849	5 837 29 389	13 9	14 9	40 15	154 1541 1542
												16
79 109	(D)	16 379	2 397	4 085	78 018	866	62 718	35 700	7	7	10	1611
(D) 16 441 (D)	(D) 10 602 (D)	(D) 1 435 (D)	(D) 708 353	(D) *1 181 287	(D) 11 942 3 649	254 404 (S)	11 298 25 774 (S)	5 115 16 060 (S)	(D) 17 25	(D) 15 (D)	(D) 48 35	162 1622 1623 1629
												17
39 538	36 046	4 580	952	1 276	13 512	1 002	55 265	24 813	8	7	36	1711
6 964	2 693	291	41	182	2 458	198	4 731	3 645	11	12	29	1721
21 616	18 688	869	485	1 218	5 927	778	28 875	14 487	11	10	30	1731
6 668 7 015 (D)	2 679 4 227 (D)	*21 *1 023 (D)	16 132 (D)	(D) *110 (D)	*1 595 (D) (D)	310 175 6	10 883 6 821 217	5 787 4 061 111	19 20 (D)	21 23 (D)	(D) 44 (D)	174 1741 1742 1743
10 840 (S)	7 992 (S)	*3 205 (S)	57 (S)	*342 (S)	2 568 (D)	422 *26	15 098 *814	7 609 *350	28 (S)	28 (S)	60 (S)	175 1751 1752
16 835	(D)	3 934	219	296	4 141	428	19 587	11 466	11	8	21	1761
18 813	18 193	3 934	1 850	412	3 545	390	14 955	6 400	15	17	27	1771
1 054	(D)	21	20	(D)	*479	156	7 173	4 222	(W)	(W)	(D)	1781
3 925 3 117 8 611	(D) 3 932 3 202	484 (D) *73	*283 88 *360	*174 76 *460	910 1 406 *6 895	(S) 110 (D)	(S) 6 503 27 651	(S) 3 258 15 981	35 15 25	(D) (D) 24	53 23 49	179 1791 1793 1794 1795
3 851 9 245	1 569 8 576	*75 594	(D) 224	(D) *200	838 *1 220	(D) (S)	3 024 (S)	1 830 (S)	54 15	29 19	(D) 48	1796 1799
(D)	(S)	(D)	(D)	(S)	(D)	(D)	(D)	(D)	(D)	(D)	(S)	6552

Table 4. Detailed Statistics for Establishments With Payroll: 1987 and Earlier Census Years

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	1977	1972	Relative standard error of estimate (percent)			
					1987	1982	1977	1972
Number of establishments in business during year	1 652	1 723	2 185	1 513	2	4	5	7
Proprietors and working partners	719	807	1 752	1 165	8	8	8	9
All employees**	9 452	8 866	12 327	9 142	3	3	4	7
Construction workers:								
March	6 172	5 802	7 896	5 413	4	5	3	7
May	8 130	7 248	11 482	7 791	3	4	4	9
August	8 751	8 549	12 370	10 221	3	3	4	7
November	7 319	7 216	10 969	8 553	3	4	3	8
Average	7 593	7 416	10 688	8 173	3	4	4	7
Other employees:								
March	1 848	1 434	1 505	924	4	5	7	7
May	1 867	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
August	1 894	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
November	1 825	(NA)	(NA)	(NA)	4	(NA)	(NA)	(NA)
Average	1 858	(NA)	(NA)	(NA)	3	(NA)	(NA)	(NA)
Construction worker hours (thousands):								
January to March	2 390	2 331	(NA)	(NA)	5	6	(NA)	(NA)
April to June	3 408	2 957	(NA)	(NA)	4	5	(NA)	(NA)
July to September	3 767	3 532	(NA)	(NA)	5	4	(NA)	(NA)
October to December	3 048	2 954	(NA)	(NA)	4	5	(NA)	(NA)
Total hours worked	12 615	11 775	(NA)	(NA)	4	4	(NA)	(NA)
Payroll, all employees	152 067	117 867	120 057	69 722	2	3	2	8
Payroll, construction workers	113 805	91 165	99 617	60 307	3	3	3	9
Payroll, other employees	38 261	26 701	20 440	9 415	3	4	3	4
First quarter payroll, all employees	30 930	23 422	21 603	(NA)	4	4	3	(NA)
Employer costs for fringe benefits, all employees	26 689	21 602	16 418	(NA)	3	4	2	(NA)
Legally required expenditures	20 479	16 213	11 973	(NA)	4	4	3	(NA)
Voluntary expenditures	6 210	5 389	4 445	(NA)	4	5	3	(NA)
Dollar value of business done	762 883	524 010	569 820	280 187	2	3	3	8
Value of construction work ¹	724 664	507 258	552 240	274 243	2	3	3	8
Value of construction work subcontracted in from others	158 002	93 110	110 141	48 927	6	7	4	10
Land receipts ²	3 387	2 196	(NA)	(NA)	24	8	(NA)	(NA)
Other business receipts	34 832	14 556	17 580	5 944	5	12	7	11
Net value of construction†	582 446	419 189	452 350	228 174	3	3	3	9
Value added††	352 553	228 891	252 573	144 259	3	3	3	11
Selected costs	406 942	292 922	313 626	134 437	3	3	3	7
Materials, components, and supplies ³	245 032	187 247	199 736	88 368	3	4	3	9
Construction work subcontracted to others	142 217	88 069	99 890	46 069	3	3	7	7
Selected power, fuels, and lubricants	19 692	17 606	14 000	(NA)	4	5	3	(NA)
Electricity	2 189	1 558	855	(NA)	6	9	8	(NA)
Natural gas	854	749	475	(NA)	4	9	12	(NA)
Gasoline and diesel fuel	14 885	14 257	10 828	(NA)	5	4	3	(NA)
On highway use	10 180	(NA)	(NA)	(NA)	5	(NA)	(NA)	(NA)
Off highway use	4 704	(NA)	(NA)	(NA)	8	(NA)	(NA)	(NA)
Other, including lubricating oils and greases	1 763	1 040	1 842	(NA)	7	10	6	(NA)
Rental cost for machinery, equipment, and buildings	9 600	4 625	6 057	(NA)	15	6	4	(NA)
For machinery and equipment	6 287	2 968	5 113	5 573	23	7	5	22
For buildings	3 312	1 657	944	(NA)	8	9	10	(NA)
Selected purchased services	20 187	13 951	16 906	(NA)	5	3	4	(NA)
Communication services	3 252	2 846	2 500	(NA)	5	5	5	(NA)
Repairs to buildings and other structures	835	654	565	(NA)	10	22	15	(NA)
Repairs to machinery and equipment	16 099	10 450	13 841	(NA)	6	3	4	(NA)
Ownership of construction projects:								
Value of construction work	724 664	507 258	552 240	274 243	2	3	3	8
Government owned	260 972	145 855	162 681	128 039	6	7	4	14
Federal	87 820	(NA)	(NA)	(NA)	14	(NA)	(NA)	(NA)
State and local	173 151	(NA)	(NA)	(NA)	6	(NA)	(NA)	(NA)
Privately owned	463 691	361 402	389 558	146 204	4	5	3	8

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²Data were collected separately for establishments classified in SIC 1531, Operative Builders and SIC 6552, Land Subdividers and Developers, Except Cemeteries. For all other industries, data are included in other business receipts.

³For 1972, includes data for power, fuels, and lubricants.

Table 5. Assets, Capital Expenditures, and Depreciation for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1987	1982	Relative standard error of estimate (percent)	
			1987	1982
BUILDINGS AND OTHER STRUCTURES, MACHINERY, AND EQUIPMENT				
Beginning-of-year gross book value of depreciable assets -----	172 053	172 038	4	4
Capital expenditures, other than land -----	13 816	10 004	7	5
New -----	8 179	6 948	9	6
Used -----	5 636	3 055	13	10
Retirements and disposition of depreciable assets -----	3 700	3 258	14	17
End-of-year gross book value of depreciable assets -----	182 169	178 785	4	4
Depreciation charges during year -----	17 698	19 735	5	5
Buildings and Other Structures, Additions, and Related Facilities				
Beginning-of-year gross book value of depreciable assets -----	37 947	25 805	9	9
Capital expenditures, other than land -----	2 050	1 248	19	11
New buildings and other structures -----	1 629	921	21	8
Used buildings and other structures -----	*421	326	49	31
Retirements and disposition of depreciable assets -----	*568	214	54	30
End-of-year gross book value of depreciable assets -----	39 429	26 839	8	9
Depreciation charges during year -----	2 331	2 595	10	11
Machinery and Equipment				
Beginning-of-year gross book value of depreciable assets -----	134 105	146 233	5	4
Capital expenditures, other than land -----	11 765	8 756	8	6
New machinery and equipment, including automobiles and trucks -----	6 549	6 027	10	7
New automobiles and trucks, intended primarily for highway use -----	2 992	1 777	11	13
Used machinery and equipment, including automobiles and trucks -----	5 215	2 729	12	10
Retirements and disposition of depreciable assets -----	3 131	3 044	12	18
End-of-year gross book value of depreciable assets -----	142 740	151 945	5	4
Depreciation charges during year -----	15 367	17 139	6	6

Table 6. Value of Inventories for Establishments With Payroll: 1987 and 1986

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Establishments with payroll	Relative standard error of estimate (percent)
All establishments:		
Number	1 652	2
Value of construction work	724 664	2
Establishments with inventories:		
Number	622	7
Value of construction work	388 604	5
Inventories ¹ :		
End of 1987, materials and supplies	20 015	8
End of 1986, materials and supplies	17 478	6
Establishments with no inventories:		
Number	800	6
Value of construction work	241 404	8
Establishments not reporting:		
Number	230	17
Value of construction work	94 656	13

¹Inventories at cost or market prior to any adjustment to correct to LIFO values.

Table 7. Selected Statistics for Establishments With Payroll by Employment Size Class: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with an average of—									1,000 employees or more
		1 to 4 employees	5 to 9 employees	10 to 19 employees	20 to 49 employees	50 to 99 employees	100 to 249 employees	250 to 499 employees	500 to 999 employees		
1987											
Number of establishments -----	1 652	1 107	303	160	63	14	3	-	-	-	
All employees** -----	9 452	2 204	2 027	2 105	1 740	869	505	-	-	-	
Payroll, all employees -----	152 067	22 715	29 947	35 351	35 426	19 253	9 374	-	-	-	
Construction worker hours (thousands) -----	12 615	2 688	2 650	2 730	2 507	1 170	867	-	-	-	
Dollar value business done -----	762 883	131 821	127 133	162 146	260 852	(D)	80 929	-	-	-	
Value of construction work ¹ -----	724 664	127 420	122 793	155 839	147 620	170 991	(D)	-	-	-	
Net value of construction work† -----	582 446	115 521	109 517	139 600	(D)	66 909	46 898	-	-	-	
Value added†† -----	352 553	67 282	62 379	77 212	105 820	(D)	39 858	-	-	-	
Cost of materials, components, supplies, and fuels -----	264 725	51 929	50 594	55 702	51 188	55 310	(D)	-	-	-	
Cost of construction work subcontracted to others -----	142 217	11 898	13 275	59 859	(D)	57 184	(D)	-	-	-	
Rental cost for machinery, equipment, and buildings -----	9 600	1 190	1 948	3 435	1 628	733	665	-	-	-	
Capital expenditures, other than land -----	13 816	2 959	2 325	2 984	2 878	2 670	(D)	-	-	-	
End-of-year gross book value of depreciable assets -----	182 169	23 677	29 673	31 227	55 672	41 919	(D)	-	-	-	
1982											
All employees** -----	8 866	2 254	1 820	1 509	1 844	575	863	-	-	-	
Value of construction work ¹ -----	507 258	101 463	81 171	86 776	118 425	63 791	55 631	-	-	-	
Value added†† -----	228 891	50 890	40 687	33 844	50 041	21 970	31 457	-	-	-	
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	3	6	11	9	6	(W)	(W)	-	-	-	
Net value of construction work† -----	3	8	11	9	(D)	(W)	(W)	-	-	-	
Capital expenditures, other than land -----	7	21	31	16	10	(W)	(D)	-	-	-	

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 8. Selected Statistics by Size Class of Dollar Value of Business Done for Establishments With Payroll: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Selected statistics	Total	Establishments with dollar value of business done—									
		Less than \$25,000	\$25,000 to \$49,999	\$50,000 to \$99,999	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 to \$2,499,999	\$2,500,000 to \$4,999,999	\$5,000,000 to \$9,999,999	\$10,000,000 or more
1987											
Number of establishments -----	1 652	(S)	(S)	(S)	485	256	141	110	27	13	6
All employees** -----	9 452	(S)	(S)	(S)	1 568	1 495	1 489	1 846	788	606	737
Payroll, all employees -----	152 067	(S)	(S)	(S)	17 082	20 623	24 557	38 194	15 987	13 503	16 008
Construction worker hours (thousands) -----	12 615	(S)	(S)	(S)	2 113	1 864	2 214	2 134	1 173	901	1 231
Dollar value of business done -----	762 883	(S)	(S)	(S)	77 138	90 541	97 968	166 683	89 755	92 119	120 812
Value of construction work ¹ -----	724 664	(S)	(S)	(S)	73 951	87 433	94 128	160 714	85 203	195 913	(D)
Net value of construction work† -----	582 446	(S)	(S)	(S)	67 928	164 218	(D)	198 752	(D)	57 001	68 220
Value added†† -----	352 553	(S)	(S)	(S)	40 605	46 662	50 622	79 389	37 703	30 144	51 908
Cost of materials, components, supplies, and fuels -----	264 725	(S)	(S)	(S)	30 184	34 076	38 899	61 222	28 890	60 187	(D)
Cost of construction work subcontracted to others -----	142 217	(S)	(S)	(S)	6 023	17 343	(D)	47 164	(D)	70 692	(D)
Rental cost for machinery, equipment, and buildings -----	9 600	(S)	(S)	(S)	745	958	*3 060	2 138	1 038	604	820
Capital expenditures, other than land -----	13 816	(S)	(S)	(S)	2 532	*1 397	1 069	2 823	2 558	1 507	1 428
End-of-year gross book value of depreciable assets -----	182 169	(S)	(S)	(S)	20 561	16 721	19 372	29 865	33 346	32 996	24 634
1982											
All employees** -----	8 866	427	322	712	1 555	1 387	1 156	1 377	559	712	658
Value of construction work ¹ -----	507 258	4 236	7 529	24 564	61 653	69 854	63 401	89 539	55 912	57 277	73 292
Value added†† -----	228 891	2 275	4 202	13 186	32 741	34 912	30 667	35 527	21 758	18 072	35 548
1987 RELATIVE STANDARD ERROR OF ESTIMATE (PERCENT)											
All employees** -----	3	(S)	(S)	(S)	11	14	12	6	4	(W)	(W)
Net value of construction work† -----	3	(S)	(S)	(S)	10	13	(D)	8	(D)	(W)	(W)
Capital expenditures, other than land -----	7	(S)	(S)	(S)	24	42	27	17	11	11	(W)

Note: Underscored data fields include data from adjoining columns which have been withheld to avoid disclosing data for individual companies.

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

Table 9. Value of Construction Work for Establishments With Payroll by Type of Construction: 1987 and 1982

[Thousand dollars. Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Type of construction	Value of construction work ¹				Relative standard error of estimate (percent) for column—			
	Total	New construction	Additions, alterations, or reconstruction ²	Maintenance and repair				
	A	B	C	D	A	B	C	D
1987								
Value of construction work ¹	724 664	427 728	151 730	112 134	2	4	4	6
Building construction	495 721	311 562	105 026	76 612	3	4	6	7
Single-family houses.....	127 534	78 479	30 473	18 581	8	12	9	16
Single-family houses, detached.....	116 936	70 195	29 439	17 301	9	13	10	17
Single-family houses, attached.....	10 598	8 284	1 034	1 280	24	29	22	17
Apartment buildings with two or more apartments.....	36 800	11 164	2 726	22 909	6	17	11	3
Other residential buildings, including hotels and motels.....	42 765	33 563	6 376	2 824	4	4	3	27
Hotels and motels.....	33 555	26 078	5 712	1 764	2	1	3	36
Other residential buildings, excluding hotels and motels.....	9 210	7 485	663	*1 060	15	16	14	41
Office buildings.....	43 958	26 277	11 750	5 930	7	9	10	15
Other commercial buildings such as stores, restaurants, and automobile service stations.....	71 246	50 553	13 587	7 106	8	10	15	19
Industrial buildings and warehouses.....	70 978	55 205	9 947	5 825	6	7	11	19
Industrial buildings.....	57 505	45 028	7 567	4 910	7	8	11	21
Warehouses.....	13 473	10 177	2 380	915	16	22	18	17
Religious buildings.....	13 299	9 077	2 290	1 931	23	32	18	21
Educational buildings.....	28 410	14 066	10 296	4 047	9	13	13	23
Hospitals and institutional buildings.....	30 978	17 766	10 030	3 182	17	28	14	28
Farm buildings.....	12 358	9 151	1 500	1 705	12	13	26	34
Other nonresidential buildings.....	14 874	6 261	6 051	*2 571	11	19	13	41
Land development for buildings.....	(S)	(NA)	(NA)	(NA)	(S)	(NA)	(NA)	(NA)
Nonbuilding construction	198 392	116 165	46 704	35 522	5	6	8	12
Highways, streets, and related facilities.....	124 096	66 025	34 338	23 732	6	9	10	13
Bridges and elevated highways.....	3 037	(D)	(D)	446	(W)	(D)	(D)	(W)
Sewers, water mains, and related facilities.....	21 395	17 891	2 091	1 413	18	20	30	31
Sewers, sewer lines, and related facilities.....	13 161	10 843	1 706	*611	19	22	38	40
Water mains and related facilities.....	8 234	(D)	(D)	802	28	(D)	(D)	36
Other nonbuilding construction.....	49 864	29 779	10 155	9 931	39	31	31	64
Construction work, n.s.k.	30 551	(NA)	(NA)	(NA)	18	(NA)	(NA)	(NA)
1982								
Value of construction work ¹	507 258	374 527	(NA)	132 730	3	4	(NA)	5
Building construction	344 000	269 731	(NA)	74 269	3	4	(NA)	6
Single-family houses.....	92 867	68 747	(NA)	24 119	7	8	(NA)	8
Single-family houses, detached.....	79 111	56 754	(NA)	22 356	7	8	(NA)	9
Single-family houses, attached.....	13 755	11 992	(NA)	1 763	13	14	(NA)	25
Apartment buildings with two or more apartments.....	19 620	14 051	(NA)	5 568	11	6	(NA)	36
Other residential buildings, including hotels and motels.....	13 251	11 560	(NA)	1 691	4	4	(NA)	14
Hotels and motels.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Other residential buildings, excluding hotels and motels.....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Office buildings.....	35 225	25 636	(NA)	9 589	4	3	(NA)	8
Other commercial buildings such as stores, restaurants, and automobile service stations.....	28 115	19 901	(NA)	8 214	8	7	(NA)	12
Industrial buildings and warehouses.....	42 319	34 061	(NA)	8 257	7	8	(NA)	21
Industrial buildings.....	36 197	29 257	(NA)	6 940	9	9	(NA)	25
Warehouses.....	6 121	4 804	(NA)	1 316	13	9	(NA)	34
Religious buildings.....	8 624	6 863	(NA)	1 761	31	39	(NA)	17
Educational buildings.....	24 458	18 055	(NA)	6 402	7	6	(NA)	16
Hospitals and institutional buildings.....	38 020	33 610	(NA)	4 409	6	7	(NA)	12
Farm buildings.....	34 764	31 495	(NA)	3 269	20	22	(NA)	19
Amusement, social, and recreational buildings.....	3 788	3 405	(NA)	383	12	13	(NA)	37
Other nonresidential buildings.....	2 949	2 347	(NA)	607	15	10	(NA)	33
Nonbuilding construction	133 439	81 098	(NA)	52 341	3	6	(NA)	4
Highways, streets, and related facilities.....	80 621	40 390	(NA)	40 230	6	8	(NA)	4
Bridges, tunnels, and elevated highways.....	10 166	5 721	(NA)	4 444	8	10	(NA)	6
Power and communication transmission lines, towers, and related facilities.....	20 459	17 862	(NA)	2 596	7	6	(NA)	9
Sewers, water mains, and related facilities.....	10 882	7 123	(NA)	3 759	16	20	(NA)	15
Sewers, sewer lines, and related facilities.....	3 502	2 267	(NA)	1 235	24	28	(NA)	26
Water mains and related facilities.....	7 379	4 856	(NA)	2 523	19	21	(NA)	18
Other nonbuilding construction.....	11 311	10 002	(NA)	1 312	18	18	(NA)	26
Construction work, n.s.k.	29 817	23 698	(NA)	6 119	11	13	(NA)	16

¹In earlier censuses, construction receipts only were collected. In 1987, the value of construction work was collected to better measure actual construction activity where no receipts were received.

²In 1982, data for additions, alterations, or reconstruction were not collected separately. These data are included with "New construction".

Table 10. Quarterly Construction Worker Hours and Employment With Payroll by Industry:

[Detail may not add to total due to rounding. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Number of establishments	Average number of construction workers	Construction worker hours (thousands)	January to March		April to June	
					Construction workers ¹	Hours worked (thousands)	Construction workers ¹	Hours worked (thousands)
		A	B	C	D	E	F	G
	Construction Industries and land subdividers and developers -----	1 652	7 593	12 615	6 172	2 390	8 130	3 408
15, 16, 17	Construction Industries:							
15	Building construction—General contractors and operative builders:							
152	General contractors, residential buildings:							
1521	Single-family houses -----	221	634	892	586	196	663	236
1522	Other residential buildings -----	9	278	497	235	101	304	132
1531	Operative builders -----	35	*117	16	*95	*3	*119	3
154	General contractors, nonresidential buildings:							
1541	Industrial buildings and warehouses -----	16	171	242	122	55	186	69
1542	Nonresidential buildings, n.e.c. -----	148	962	1 777	836	384	995	466
16	Heavy construction other than building construction—contractors:							
1611	Highway and street construction -----	104	979	1 760	471	168	1 153	529
162	Heavy construction, except highway:							
1622	Bridge, tunnel, and elevated highway construction -----	2	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines -----	52	301	573	231	80	258	133
1629	Heavy construction, n.e.c. -----	38	125	213	66	26	156	66
17	Special trade contractors:							
1711	Plumbing, heating, and air-conditioning ----	215	841	1 441	856	352	878	374
1721	Painting and paper hanging -----	77	198	302	112	46	217	72
1731	Electrical work -----	170	579	841	546	185	558	202
174	Masonry, stonework, tile setting, and plastering:							
1741	Masonry, stone setting, and other stonework -----	50	265	345	377	*151	310	*94
1742	Plastering, drywall, and insulation work ---	37	144	235	116	42	140	59
1743	Terrazzo, tile, marble, and mosaic work -	3	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:							
1751	Carpentry -----	129	355	657	328	100	390	196
1752	Floor laying and other floor work -----	*26	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work -----	59	373	668	320	132	406	186
1771	Concrete work -----	105	535	895	273	112	640	267
1781	Water well drilling -----	11	19	21	17	4	21	6
179	Miscellaneous special trade contractors:							
1791	Structural steel erection -----	*11	73	*162	57	30	73	*39
1793	Glass and glazing work -----	15	74	131	68	30	73	32
1794	Excavation work -----	*26	130	276	106	45	123	68
1795	Wrecking and demolition work -----	-	-	-	-	-	-	-
1796	Installing building equipment, n.e.c. -----	21	*114	*257	*117	*63	*115	*64
1799	Special trade contractors, n.e.c. -----	60	225	274	171	53	263	79
6552	Land subdividers and developers, n.e.c. --	8	(S)	(S)	(D)	(D)	(D)	(S)

¹Construction workers during pay periods including 12th of March, May, August, and November.

July to September		October to December		Relative standard error of estimate (percent) for column—										1987 SIC code
Construction workers¹	Hours worked (thousands)	Construction workers¹	Hours worked (thousands)											
H	I	J	K	B	C	D	E	F	G	H	I	J	K	
8 751	3 767	7 319	3 048	3	4	4	5	3	4	3	5	3	4	15, 16, 17
														15
719	249	568	208	16	21	17	23	18	20	17	22	17	23	152
288	133	287	129	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	(W)	1521
														1522
*118	*6	*137	*3	42	37	43	49	42	20	41	43	42	44	1531
														154
189	66	187	51	13	33	18	37	15	37	13	31	8	29	1541
1 075	493	944	433	10	13	10	12	10	12	10	14	10	14	1542
														16
1 383	691	911	370	7	5	11	9	7	6	7	5	8	8	1611
														162
(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1622
361	190	353	168	17	21	16	16	17	22	18	21	20	26	1623
132	54	146	66	26	33	18	22	30	37	29	34	27	36	1629
														17
864	370	765	344	8	11	7	10	8	11	9	13	9	13	1711
276	96	188	87	13	15	20	18	13	15	17	14	25	29	1721
617	220	595	233	12	15	11	14	12	16	13	18	12	15	1731
														174
														1741
189	56	185	*43	20	38	30	51	23	45	23	39	25	45	175
161	69	161	63	23	25	20	24	25	28	21	22	37	32	1742
(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1743
431	220	274	139	28	32	35	30	31	35	29	37	20	29	1751
(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)	1752
423	186	344	163	12	17	16	22	11	17	11	14	12	18	1761
711	302	515	212	16	28	19	26	17	31	18	31	16	28	1771
22	6	17	4	(W)	9	(W)	7	(W)	8	(W)	8	(W)	12	1781
														179
*89	*49	*72	*42	38	42	27	31	38	42	43	47	44	46	1791
83	35	75	34	16	13	15	15	16	14	18	12	17	12	1793
143	83	149	79	24	25	23	25	25	27	25	26	26	27	1794
-	-	-	-	-	-	-	-	-	-	-	-	-	-	1795
*106	*63	*119	*66	59	71	57	71	58	71	63	72	56	69	1796
249	77	218	63	16	24	12	29	17	22	18	23	20	26	1799
(S)	(S)	(S)	(S)	(S)	(S)	(D)	(D)	(D)	(S)	(S)	(S)	(S)	(S)	6552

Table 11. **Selected Industry Ratios for Establishments With Payroll in This State: 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

1987 SIC code	Industry	Average number of employees** per estab- lishment	Payroll per employee (\$1,000)	Construction worker hours per construction worker	Value of construction work per construction worker (\$1,000)	Average per dollar of value of construction work			
						Payroll, all employees	Cost of materials, components, supplies, and fuels	Cost of construction work sub- contracted to others	Rental cost for machinery, equipment, and buildings
	Construction industries and land subdividers and developers	5.7	16.1	1 661.4	95.4	.210	.365	.196	.013
15, 16, 17	Construction industries:								
15	Building construction—General contractors and operative builders:								
152	General contractors, residential buildings:								
1521	Single-family houses	3.2	9.8	1 406.9	52.6	.205	.422	.149	.006
1522	Other residential buildings	36.6	13.6	1 787.8	200.6	.080	(D)	.469	.003
1531	Operative builders	6.0	14.8	136.8	187.1	.142	.444	.447	(S)
154	General contractors, nonresidential buildings:								
1541	Industrial buildings and warehouses	14.2	18.4	1 415.2	126.7	.193	(D)	.366	.008
1542	Nonresidential buildings, n.e.c.	8.2	18.1	1 847.2	146.0	.156	.306	.391	.004
16	Heavy construction other than building construction—contractors:								
1611	Highway and street construction	11.2	21.7	1 797.8	120.5	.213	(D)	.139	.020
162	Heavy construction, except highway:								
1622	Bridge, tunnel, and elevated highway construction	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1623	Water, sewer, and utility lines	7.3	16.9	1 903.7	91.9	.233	.383	.052	.026
1629	Heavy construction, n.e.c.	3.6	13.1	1 704.0	66.3	.217	.307	(D)	.043
17	Special trade contractors:								
1711	Plumbing, heating, and air-conditioning	5.5	16.1	1 713.4	91.1	.251	.471	.060	.012
1721	Painting and paper hanging	3.2	12.2	1 525.3	47.8	.313	.284	.031	.004
1731	Electrical work	4.3	15.4	1 452.5	69.3	.280	.466	.022	.012
174	Masonry, stonework, tile setting, and plastering:								
1741	Masonry, stone setting, and other stonework	5.8	15.6	1 301.9	34.6	.498	.292	.002	.002
1742	Plastering, drywall, and insulation work	4.6	14.7	1 631.9	82.5	.213	.356	.086	.011
1743	Terrazzo, tile, marble, and mosaic work	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
175	Carpentry and floor work:								
1751	Carpentry	3.0	9.9	1 850.7	61.9	.174	.364	.146	.003
1752	Floor laying and other floor work	(S)	(S)	(S)	(S)	(S)	(S)	(S)	(S)
1761	Roofing, siding, and sheet metal work	8.2	18.6	1 790.9	87.0	.277	(D)	.121	.007
1771	Concrete work	6.1	14.5	1 672.9	76.4	.227	.445	.096	.045
1781	Water well drilling	2.4	13.2	1 105.3	99.6	.182	(D)	.011	.011
179	Miscellaneous special trade contractors:								
1791	Structural steel erection	*7.7	20.2	*2 219.2	82.5	.286	(D)	.080	.047
1793	Glass and glazing work	8.1	17.3	1 770.3	82.4	.343	.645	(D)	.014
1794	Excavation work	*6.3	21.2	2 123.1	89.8	.297	.274	.006	.031
1795	Wrecking and demolition work	-	-	-	-	-	-	-	-
1796	Installing building equipment, n.e.c.	*6.1	*13.6	*2 254.4	*48.2	.317	.286	.014	(D)
1799	Special trade contractors, n.e.c.	4.9	13.7	1 217.8	73.6	.246	.518	.036	.014
6552	Land subdividers and developers, n.e.c.	(D)	(D)	(S)	(D)	(D)	(S)	(D)	(D)

Table 12. **Selected Statistics for Establishments With Payroll for Selected Metropolitan Statistical Areas: 1987**

[Not applicable]

APPENDIX A.

Explanation of Terms

Construction—Is composed of three broad categories:

1. **New construction**—Includes the complete, original erection of structures and essential service facilities and the initial installation of integral equipment such as elevators, and plumbing, heating, and air-conditioning supplies and equipment.
2. **Additions, alterations or reconstruction**—Includes construction activity making structural changes to existing facilities. Generally, this type of activity is considered a capital investment in the property.
3. **Maintenance and repair**—Includes construction done for the purpose of upkeep of property rather than additional investment in the property.

Examples of the general distinction between maintenance and repair and reconstruction are provided here: roof repairs, including the replacement of shingles, gutters, etc., are classified under maintenance and repairs. A complete reroofing, however, is classified as reconstruction.

Number of establishments in business during year—Includes all establishments that were in business at any time during the year. It covers all full-year and part-year operations. Construction establishments which were inactive or idle for the entire year were not included.

Proprietors and working partners—These data were not collected on the census report forms. The data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners.

All employees—Comprise all full-time and part-time employees on the payrolls of construction establishments, who worked or received pay for any part of the pay period including the 12th of March, May, August, and November. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Officers of corporations are included, but proprietors and partners of unincorporated firms are not.

All employees is the sum of all employees during the pay periods including the 12th of March, May, August, and November, divided by 4.

Construction workers—Includes all workers up through the working foreman level directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Included are journeymen, mechanics, apprentices, laborers, truck drivers and helpers, equipment

operators, and on-site record keepers and security guards. Supervisory employees above the working foreman level are excluded from this category but are included in the "other employees" category.

Other employees—Includes employees in executive, purchasing, accounting, personnel, professional, technical activities, and routine office functions. Also included are supervisory employees above the working foreman level.

Construction worker hours—Includes the total number of hours worked by construction workers. Construction worker hours were collected for each of the four quarters of 1987.

Payroll—Includes the gross earnings paid in the calendar year 1987 to all employees on the payroll of construction establishments. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, bonuses, vacation and sick leave pay, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation, but excludes payments to the proprietor or partners, if an unincorporated concern.

Employer costs for fringe benefits (supplemental labor costs)—Represents expenditures made by the employer during 1987 for legally required and voluntary fringe benefit programs for employees.

Legally required contributions—Include Social Security contributions, unemployment compensation, workman's compensation, and State temporary disability payments.

Voluntary payments—Include life insurance premiums, pension plans, insurance premiums on hospital and medical plans, welfare plans, and union negotiated benefits.

Dollar value of business done comprises the following detail:

Value of construction work done—Includes all value of construction work done during 1987 for construction work performed by general contractors, special trades contractors, subcontractors, and land development and improvement work. Included is new construction, additions and alterations or reconstruction, and maintenance and repair construction work. Also included is the value of any construction work done by the reporting establishments for themselves.

Builders were instructed to include the value of buildings and other structures built or being built for sale in 1987 but not sold. They were to include the costs of such construction plus normal profit. Also included is the cost of construction work done on buildings for rent or lease.

Establishments engaged in the sale and installation of such construction components as plumbing, heating, and central air conditioning supplies and equipment; lumber and building materials; paint, glass, and wallpaper; and electrical and wiring supplies, elevators or escalators, etc., were instructed to include both the value for the installation and the receipts covering the price of the items installed.

Excluded was the cost of industrial and other specialized machinery and equipment which are not an integral part of a structure.

Land receipts—Includes receipts from the sale of land, whether held for sale or sold in connection with the sale of houses and other structures. It excludes the value of any improvements made to the land prior to the sale. (That value was to be included in the value of construction work done.)

Other business receipts—Includes business receipts not reported as value of construction work done or land receipts. The item includes business receipts from retail and wholesale trade, rental of equipment, manufacturing, transportation, legal service, insurance, finance, rental of property and other real estate operations, and other nonconstruction activities. Receipts for separately definable architectural and engineering work for others are also included here.

Excluded was the value of construction work done and receipts from other business operations in foreign countries and non-operating income such as interest and dividends.

Net value of construction work—Derived for each establishment by subtracting the costs for construction work subcontracted to others from the value of construction work done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

Value added—Derived for each establishment, value added is equal to dollar value of business done, less costs for construction work subcontracted to others, and costs for materials, components, supplies and fuels. For SIC 6552 and SIC 1531, for which land receipts are significant, land receipts are also subtracted from dollar value of business done. (For a further explanation see "Duplication in Value of Construction Work" section in the Introduction.)

Selected costs—Represents the costs for materials, components, and supplies; costs for construction work subcontracted to others; and costs for selected power, fuels, and lubricants. Capital expenditures and rental costs for machinery, equipment, and structures are shown elsewhere.

Costs for materials, components, and supplies include:

- total costs to reporting establishments during 1987 for the purchase of all materials, components, and supplies, except fuels. (Supplies include expendable tools which are charged to current accounts.)
- freight and other direct charges should represent only amount paid after discounts, and the value of materials, components, and supplies obtained from other establishments of the respondent's company.
- costs for materials, components, and supplies used by the reporting establishments in the construction or reconstruction of buildings/structures for themselves which are chargeable to their fixed assets accounts, are included in this item as are costs for materials bought and resold to others.
- costs made for direct purchases of materials, components, and supplies even though the purchases were subsequently provided to subcontractors for their use.

Excluded from this item are:

- industrial and other specialized machinery and equipment, such as printing presses; computer systems; etc., which are not an integral part of a structure
- materials furnished to contractors by the owners of projects.

Costs for construction work subcontracted to others include:

- all costs during 1987 for construction work subcontracted out to other construction contractors.

Excluded from this item are:

- The costs to the reporting establishment for its purchases of materials, components, and supplies, provided to a subcontractor for his use. Such costs are reported under a separate category, "costs for materials, components, and supplies."
- costs for the rental of machinery or equipment.

Costs for selected power, fuels, and lubricants include:

- costs for fuels, lubricants, and electric energy purchased during the year from other companies, or received from other establishments of the company.
- costs for natural and manufactured gas, fuel oil, coal and coke products, etc.

Rental costs for machinery, equipment, and buildings—Includes all costs during 1987 for renting or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It

excludes costs for the rental of land. It also excludes costs under agreements which, in effect, are conditional sales contracts such as capital leases. Such costs are included in "capital expenditures."

Selected purchased services—Includes all costs during 1987 for communication services purchased from other companies or from other establishments of the company. It also includes the cost of all repairs made to structures and equipment by outside companies, or from other establishments of the same company. It includes only the cost of that repair necessary to maintain property and equipment. It excludes the cost of improvements that increase the value of property, or the cost of adapting it for another use. Such costs are included in "capital expenditures".

Assets and depreciation—Refers to the original cost of all fixed tangible assets such as buildings and other structures (offices, shops, etc.); stationary machinery (generators, **shop** equipment, etc.); mobile machinery (tractors, trucks, etc.); and other equipment (office furniture and fixtures, etc.). Not included are such items as current assets, depletable assets, intangible assets, and nondepreciable assets.

Data on assets and depreciation were collected separately for: (1) buildings and other structures, additions, and related facilities; and, (2) machinery and equipment.

Respondents were also asked to report capitalized expenditures, depreciation charges, and the gross value of assets sold, retired, scrapped, destroyed, etc., during 1987.

Capital expenditures—Refers to all costs actually incurred during 1987 which were or would be chargeable to the fixed assets accounts of the reporting establishments and which were of the type for which depreciation accounts are ordinarily maintained. These expenditures cover the acquisition, the construction, and the major alteration of the reporting establishment's own buildings and other structures, whether purchased, constructed under contract, or constructed by the reporting establishment's own forces; and the acquisition of machinery and equipment.

If leasing arrangements met the criteria set down by the Financial Accounting Standards Board (FASB) for a capital lease, respondents were instructed to report the original cost or market value of that equipment or building as a fixed asset and capital expenditure if acquired during 1987.

If capital expenditures were not recorded directly at the establishment level but handled centrally at the company or division level, respondents were requested to report appropriate estimates for the individual establishments.

Inventories—Includes all of the materials and supplies that are owned regardless of where they are held. Excludes materials which are owned by others, but held by the reporting establishment.

Builders who built on their own account for sale were requested to report work in progress and finished units not sold for buildings and other structures built for sale.

Inventories of multi-establishment companies were instructed to be reported by the establishment that is responsible for the inventories even if these inventories were held at a separate location.

Ownership of construction projects—This item shows the distribution of the value of construction work done by ownership of the project, that is, Government owned or privately owned. This classification relates to the ownership of the projects or work undertaken during the construction phase. Government owned projects are shown separately for Federal, and State and local governments.

Value of construction work subcontracted in from others—Includes the value of construction work during 1987 for work done by reporting establishments for other construction contractors or builders. Establishments were asked to report the approximate percent of total value of construction work accounted for by such work, and the percentages reported were applied to the reported value of construction work to develop a value for this item.

Types of construction—This item provides data by the types of buildings, structures, or other facilities being constructed or worked on by construction establishments in 1987. Respondents were instructed that each building, structure, or other facility should be classified in terms of its function. For example, a restaurant building was to be classified in the restaurant category whether it was designed as a commercial restaurant building or an auxiliary unit of an educational institution. If respondents worked on more than one type of building or structure in a multibuilding complex, they were instructed to report separately for each building or type of structure. If they worked on a building that had more than one purpose, i.e, office and residential, or commercial, they were to classify the building by major purpose.

In addition all respondents were requested to report the percentage of the value of construction work done for new construction, additions, alterations, or reconstruction, and maintenance and repair work for each of these types. See the definition of "Construction" for the meanings of these terms.

Building construction:

- **Single-family houses, detached**—Includes all residential buildings constructed for one family use.
- **Single-family houses, attached (include townhouses)**—Includes all residential buildings with two or more living quarters side by side, completely independent of one another, and separated by an unbroken wall from ground to roof.
- **Apartment buildings with two or more apartments**—Includes high-rise, low-rise, or any structures containing two or more housing units (excluding attached single-family houses and townhouses described above).
- **Hotels and motels**—Includes hotels, motels, and tourist cabins intended for transient accommodations.

- **Other residential buildings**—Includes dormitories, fraternity and sorority houses, nurses homes, and other nonhousekeeping residential structures.
- **Office buildings**—Includes all buildings which are used primarily for office space or for government administrative offices. Also included are banks or financial buildings which are three stories or more.
- **Other commercial buildings, such as stores, restaurants, and automobile service stations**—Includes all buildings which are intended for use primarily in the wholesale, retail, and service trades. For example, shopping centers, department stores, drug stores, restaurants, public garages, auto service stations, and one or two story bank or financial institutions.
- **Industrial buildings**—Includes all industrial buildings and plants which are used to house production and assembly activities. Heavy industrial facilities such as blast furnaces, petroleum refineries, chemical complexes, etc., are not included in this category, but under nonbuilding construction.
- **Warehouses**—Includes commercial warehouses, cold storage plants, grain elevators, mini-warehouses, and other such storage buildings.
- **Religious buildings**—Includes all buildings which are intended for religious services or functions, such as churches, synagogues, convents, monasteries, and seminaries.
- **Educational buildings**—Includes all buildings which are used directly in administrative and instructional activities, such as colleges, universities, elementary and secondary schools, correspondence, commercial, and trade schools. Libraries, museums, and art galleries, as well as laboratories which are not a part of a manufacturing establishment, are also included.
- **Hospitals and institutional buildings**—Includes all buildings which are intended to provide hospital and institutional care, such as clinics, infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.
- **Farm buildings, nonresidential**—Includes nonresidential farm buildings such as barns, poultry houses, implement sheds, and farm silos.
- **Amusement, social, and recreational buildings**—Includes buildings which are used primarily for entertainment, social and recreational activities, such as sports arenas, theaters, music halls, golf and country club buildings, skating rinks, bowling alleys, and indoor swimming pools.
- **Other nonresidential buildings**—Includes nonresidential buildings which are not classified elsewhere, such as fire stations, prisons, civic centers, bus and air passenger terminals and hangars.

Nonbuilding construction:

- **Highways, streets and related work, such as installation of guardrails, highway signs, etc.**—Includes streets, roads, alleys, sidewalks, curbs and gutters, culverts, right-of-way drainage, erosion control and lighting. Also includes earthwork protective structures when used in connection with road improvements.
- **Outdoor swimming pools**—Includes wading pools and reflecting pools.
- **Recreational facilities**—Includes athletic fields, golf courses, outdoor tennis courts, trails, and camps.
- **Bridges and elevated highways**—Includes viaducts and overpasses; roads, highways, railroads, and causeways built on structural supports.
- **Tunnels**—Includes highway, pedestrian, and railroad tunnels.
- **Railroad construction**—Includes the construction of railroad beds, tracks, freight yards, and signal towers.
- **Subway construction**—Includes urban mass transit subway systems above or below ground.
- **Dam and reservoir construction**—Includes hydroelectric, water supply, and flood control dams and reservoirs.
- **Marine construction**—Includes dredging, underwater rock removal, breakwaters, navigational channels, jetties, and locks.
- **Harbor and port facilities**—Includes docks, piers, and wharves.
- **Conservation and development construction**—Includes land reclamation, irrigation projects, drainage canals, levees, and flood control projects.
- **Power and communication transmission lines, towers, and related facilities**—Includes electric power lines, telephone and telegraph lines, fiber optic cables, cable television lines, television and radio towers, electric light and power facilities.
- **Power plants, except nuclear**—Includes electric and steam generating plants.
- **Power plants, nuclear**—Includes atomic energy plants, and nuclear reactors.
- **Sewers, sewerlines, and related facilities**—Includes sanitary and storm sewers, and related facilities.
- **Sewage treatment plants**—Includes sewage treatment and waste disposal plants.
- **Water mains and related facilities**—Includes water supply systems and related facilities.

- **Water treatment plants**—Includes water filtration and water softening plants.
- **Pipeline construction other than sewer or waterlines**—Includes pipelines for the transmission of gas, petroleum products, and liquefied gases.
- **Blast furnaces, petroleum refineries, chemical complexes, etc.**—Includes coke ovens, and mining appurtenances such as tipples and washeries.
- **Other nonbuilding construction**—Includes all types of nonbuilding construction, not included elsewhere.

APPENDIX B.

Standard Industrial Classification Titles for Industry Groups and Industries

SIC code	Industry titles	SIC code	Industry titles
15	BUILDING CONSTRUCTION—GENERAL CONTRACTORS AND OPERATIVE BUILDERS	17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS—Con.
152	General Building Contractors—Residential Buildings	173	Electrical Work Special Trade Contractors
1521	General Contractors—Single-Family Houses	1731	Electrical Work Special Trade Contractors
1522	General Contractors—Residential Buildings, Other Than Single-Family	174	Masonry, Stone Work Tile Setting, and Plastering Special Trade Contractors
153	Operative Builders	1741	Masonry, Stone Setting, and Other Stone Work Special Trade Contractors
1531	Operative Builders	1742	Plastering, Drywall, Acoustical, and Insulation Work Special Trade Contractors
154	General Building Contractors—Nonresidential Buildings	1743	Terrazzo, Tile, Marble, and Mosaic Work Special Trade Contractors
1541	General Contractors—Industrial Buildings and Warehouses	175	Carpentry and Floor Work Special Trade Contractors
1542	General Contractors—Nonresidential Buildings, Other Than Industrial Buildings and Warehouses	1751	Carpentry Work Special Trade Contractors
16	HEAVY CONSTRUCTION OTHER THAN BUILDING CONSTRUCTION—CONTRACTORS	1752	Floor Laying and Other Floor Work Special Trade Contractors, Not Elsewhere Classified
161	Highway and Street Construction, Except Elevated Highways	176	Roofing, Siding, and Sheet Metal Work Special Trade Contractors
1611	Highway and Street Construction Contractors, Except Elevated Highways	1761	Roofing, Siding, and Sheet Metal Work Special Trade Contractors
162	Heavy Construction, Except Highway and Street Construction	177	Concrete Work Special Trade Contractors
1622	Bridge, Tunnel, and Elevated Highway Construction Contractors	1771	Concrete Work Special Trade Contractors
1623	Water, Sewer, Pipeline, and Communications and Powerline Construction	178	Water Well Drilling Special Trade Contractors
1629	Heavy Construction, Not Elsewhere Classified	1781	Water Well Drilling Special Trade Contractors
17	CONSTRUCTION—SPECIAL TRADE CONTRACTORS	179	Miscellaneous Special Trade Contractors
171	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1791	Structural Steel Erection Special Trade Contractors
1711	Plumbing, Heating, and Air-Conditioning Special Trade Contractors	1793	Glass and Glazing Work Special Trade Contractors
172	Painting and Paper Hanging Special Trade Contractors	1794	Excavation Work Special Trade Contractors
1721	Painting and Paper Hanging Special Trade Contractors	1795	Wrecking and Demolition Work Special Trade Contractors
		1796	Installation or Erection of Building Equipment, Special Trade Contractors, Not Elsewhere Classified
		1799	Special Trade Contractors, Not Elsewhere Classified
		6552	LAND SUBDIVIDERS AND DEVELOPERS, EXCEPT CEMETERIES

APPENDIX C.

Regions, Census Divisions and States

NORTHEAST

New England States

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

Middle Atlantic States

New Jersey
New York
Pennsylvania

MIDWEST

East North Central States

Illinois
Indiana
Michigan
Ohio
Wisconsin

West North Central States

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH

South Atlantic States

Delaware
District of Columbia
Florida
Georgia
Maryland

South Atlantic States—Con.

North Carolina
South Carolina
Virginia
West Virginia

East South Central States

Alabama
Kentucky
Mississippi
Tennessee

West South Central States

Arkansas
Louisiana
Oklahoma
Texas

WEST

Mountain States

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

Pacific States

Alaska
California
Hawaii
Oregon
Washington

APPENDIX D.

Metropolitan Statistical Areas

[Titles and definitions shown for MSA's, PMSA's, and CMSA's are those established by the Office of Management and Budget, as of June 30, 1987]

Abilene, TX MSA

Taylor County, TX

Akron, OH PMSA—see Cleveland-Akron-Lorain, OH CMSA

Albany, GA MSA

Dougherty County, GA

Lee County, GA

Albany-Schenectady-Troy, NY MSA

Albany County, NY

Greene County, NY

Montgomery County, NY

Rensselaer County, NY

Saratoga County, NY

Schenectady County, NY

Albuquerque, NM MSA

Bernalillo County, NM

Alexandria, LA MSA

Rapides Parish, LA

Allentown-Bethlehem, PA-NJ MSA

Warren County, NJ

Carbon County, PA

Lehigh County, PA

Northampton County, PA

Altoona, PA MSA

Blair County, PA

Amarillo, TX MSA

Potter County, TX

Randall County, TX

Anaheim-Santa Ana, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA

Anchorage, AK MSA

Anchorage Borough, AK

Anderson, IN MSA

Madison County, IN

Anderson, SC MSA

Anderson County, SC

Ann Arbor, MI PMSA—see Detroit-Ann Arbor, MI CMSA

Anniston, AL MSA

Calhoun County, AL

Appleton-Oshkosh-Neenah, WI MSA

Calumet County, WI

Outagamie County, WI

Winnebago County, WI

Asheville, NC MSA

Buncombe County, NC

Athens, GA MSA

Clarke County, GA

Jackson County, GA

Madison County, GA

Oconee County, GA

Atlanta, GA MSA

Barrow County, GA

Butts County, GA

Cherokee County, GA

Clayton County, GA

Cobb County, GA

Coweta County, GA

De Kalb County, GA

Douglas County, GA

Atlanta, GA MSA—Con.

Fayette County, GA

Forsyth County, GA

Fulton County, GA

Gwinnett County, GA

Henry County, GA

Newton County, GA

Paulding County, GA

Rockdale County, GA

Spalding County, GA

Walton County, GA

Atlantic City, NJ MSA

Atlantic County, NJ

Cape May County, NJ

Augusta, GA-SC MSA

Columbia County, GA

McDuffie County, GA

Richmond County, GA

Aiken County, SC

Aurora-Elgin, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA

Austin, TX MSA

Hays County, TX

Travis County, TX

Williamson County, TX

Bakersfield, CA MSA

Kern County, CA

Baltimore, MD MSA

Anne Arundel County, MD

Baltimore County, MD

Carroll County, MD

Harford County, MD

Howard County, MD

Queen Anne's County, MD

Baltimore city, MD

Bangor, ME MSA

Penobscot County, ME (part)

Bangor city, ME

Brewer city, ME

Eddington town, ME

Glenburn town, ME

Hampden town, ME

Hermon town, ME

Holden town, ME

Kenduskeag town, ME

Old Town city, ME

Orono town, ME

Orrington town, ME

Penobscot Indian Island Indian Reservation, ME

Veazie town, ME

Waldo County, ME (part)

Winterport town, ME

Baton Rouge, LA MSA

Ascension Parish, LA

East Baton Rouge Parish, LA

Livingston Parish, LA

West Baton Rouge Parish, LA

Battle Creek, MI MSA

Calhoun County, MI

Beaumont-Port Arthur, TX MSA

Hardin County, TX

Jefferson County, TX

Orange County, TX

Beaver County, PA PMSA—see Pittsburgh-Beaver Valley, PA CMSA

Bellingham, WA MSA

Whatcom County, WA

Benton Harbor, MI MSA

Berrien County, MI

Bergen-Passaic, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA

Billings, MT MSA

Yellowstone County, MT

Biloxi-Gulfport, MS MSA

Hancock County, MS

Harrison County, MS

Binghamton, NY MSA

Broome County, NY

Tioga County, NY

Birmingham, AL MSA

Blount County, AL

Jefferson County, AL

St. Clair County, AL

Shelby County, AL

Walker County, AL

Bismarck, ND MSA

Burleigh County, ND

Morton County, ND

Bloomington, IN MSA

Monroe County, IN

Bloomington-Normal, IL MSA

McLean County, IL

Boise City, ID MSA

Ada County, ID

Boston, MA PMSA—see Boston-Lawrence-Salem, MA-NH CMSA

Boston-Lawrence-Salem, MA-NH CMSA

Boston, MA PMSA

Bristol County, MA (part)

Mansfield town, MA

Norton town, MA

Raynham town, MA

Essex County, MA (part)

Lynn city, MA

Lynnfield town, MA

Nahant town, MA

Saugus town, MA

Middlesex County, MA (part)

Acton town, MA

Arlington town, MA

Ashland town, MA

Ayer town, MA

Bedford town, MA

Belmont town, MA

Boxborough town, MA

Burlington town, MA

Cambridge city, MA

Carlisle town, MA

Concord town, MA

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Boston, MA PMSA—Con.

Middlesex County, MA (part)—Con.

Everett city, MA

Framingham town, MA

Groton town, MA

Holliston town, MA

Hopkinton town, MA

Hudson town, MA

Lexington town, MA

Lincoln town, MA

Littleton town, MA

Malden city, MA

Marlborough city, MA

Maynard town, MA

Medford city, MA

Melrose city, MA

Natick town, MA

Newton city, MA

North Reading town, MA

Reading town, MA

Sherborn town, MA

Shirley town, MA

Somerville city, MA

Stoneham town, MA

Stow town, MA

Sudbury town, MA

Townsend town, MA

Wakefield town, MA

Waltham city, MA

Watertown town, MA

Wayland town, MA

Weston town, MA

Wilmington town, MA

Winchester town, MA

Woburn city, MA

Norfolk County, MA (part)

Bellingham town, MA

Braintree town, MA

Brookline town, MA

Canton town, MA

Cohasset town, MA

Dedham town, MA

Dover town, MA

Foxborough town, MA

Franklin town, MA

Holbrook town, MA

Medfield town, MA

Medway town, MA

Millis town, MA

Milton town, MA

Needham town, MA

Norfolk town, MA

Norwood town, MA

Quincy city, MA

Randolph town, MA

Sharon town, MA

Stoughton town, MA

Walpole town, MA

Wellesley town, MA

Westwood town, MA

Weymouth town, MA

Wrentham town, MA

Plymouth County, MA (part)

Carver town, MA

Duxbury town, MA

Hanover town, MA

Hanson town, MA

Hingham town, MA

Hull town, MA

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Boston, MA PMSA—Con.

Plymouth County, MA (part)—Con.

Kingston town, MA

Lakeville town, MA

Marshfield town, MA

Middleborough town, MA

Norwell town, MA

Pembroke town, MA

Plymouth town, MA

Plympton town, MA

Rockland town, MA

Scituate town, MA

Suffolk County, MA (part)

Boston city, MA

Chelsea city, MA

Revere city, MA

Winthrop town, MA

Worcester County, MA (part)

Berlin town, MA

Bolton town, MA

Harvard town, MA

Hopedale town, MA

Lancaster town, MA

Mendon town, MA

Milford town, MA

Southborough town, MA

Upton town, MA

Brockton, MA PMSA

Bristol County, MA (part)

Easton town, MA

Norfolk County, MA (part)

Avon town, MA

Plymouth County, MA (part)

Abington town, MA

Bridgewater town, MA

Brockton city, MA

East Bridgewater town, MA

Halifax town, MA

West Bridgewater town, MA

Whitman town, MA

Lawrence-Haverhill, MA-NH PMSA

Essex County, MA (part)

Amesbury town, MA

Andover town, MA

Boxford town, MA

Georgetown town, MA

Groveland town, MA

Haverhill city, MA

Lawrence city, MA

Merrimac town, MA

Methuen town, MA

Newbury town, MA

Newburyport city, MA

North Andover town, MA

Salisbury town, MA

West Newbury town, MA

Rockingham County, NH (part)

Atkinson town, NH

Brentwood town, NH

Danville town, NH

Derry town, NH

East Kingston town, NH

Hampstead town, NH

Kingston town, NH

Newton town, NH

Plaistow town, NH

Salem town, NH

Sandown town, NH

Seabrook town, NH

Windham town, NH

Boston-Lawrence-Salem, MA-NH CMSA—Con.

Lowell, MA-NH PMSA

Middlesex County, MA (part)

Billerica town, MA

Chelmsford town, MA

Dracut town, MA

Dunstable town, MA

Lowell city, MA

Pepperell town, MA

Tewksbury town, MA

Tyngsborough town, MA

Westford town, MA

Hillsborough County, NH (part)

Pelham town, NH

Nashua, NH PMSA

Hillsborough County, NH (part)

Amherst town, NH

Brookline town, NH

Hollis town, NH

Hudson town, NH

Litchfield town, NH

Merrimack town, NH

Milford town, NH

Mont Vernon town, NH

Nashua city, NH

Wilton town, NH

Rockingham County, NH (part)

Londonderry town, NH

Salem-Gloucester, MA PMSA

Essex County, MA (part)

Beverly city, MA

Danvers town, MA

Essex town, MA

Gloucester city, MA

Hamilton town, MA

Ipswich town, MA

Manchester town, MA

Marblehead town, MA

Middleton town, MA

Peabody city, MA

Rockport town, MA

Rowley town, MA

Salem city, MA

Swampscott town, MA

Topsfield town, MA

Wenham town, MA

Boulder-Longmont, CO PMSA—see Denver-Boulder, CO CMSA**Bradenton, FL MSA**

Manatee County, FL

Brazoria, TX PMSA—see Houston-Galveston-Brazoria, TX CMSA**Bremerton, WA MSA**

Kitsap County, WA

Bridgeport-Milford, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**Bristol, CT PMSA—see Hartford-New Britain-Middletown, CT CMSA****Brockton, MA PMSA—see Boston-Lawrence-Salem, MA-NH CMSA****Brownsville-Harlingen, TX MSA**

Cameron County, TX

Bryan-College Station, TX MSA

Brazos County, TX

Buffalo, NY PMSA—see Buffalo-Niagara Falls, NY CMSA

Buffalo-Niagara Falls, NY CMSA

Buffalo, NY PMSA
 Erie County, NY
 Niagara Falls, NY PMSA
 Niagara County, NY

Burlington, NC MSA

Alamance County, NC

Burlington, VT MSA

Chittenden County, VT (part)
 Burlington city, VT
 Charlotte town, VT
 Colchester town, VT
 Essex Junction village, VT
 Essex town balance, VT
 Hinesburg town, VT
 Jericho town, VT
 Jericho village, VT
 Milton town, VT
 Milton village, VT
 Richmond town, VT
 Richmond village, VT
 St. George town, VT
 Shelburne town, VT
 South Burlington city, VT
 Williston town, VT
 Winooski city, VT
 Franklin County, VT (part)
 Georgia town, VT
 Grand Isle town, VT
 South Hero town, VT

Canton, OH MSA

Carroll County, OH
 Stark County, OH

Casper, WY MSA

Natrona County, WY

Cedar Rapids, IA MSA

Linn County, IA

Champaign-Urbana-Rantoul, IL MSA

Champaign County, IL

Charleston, SC MSA

Berkeley County, SC
 Charleston County, SC
 Dorchester County, SC

Charleston, WV MSA

Kanawha County, WV
 Putnam County, WV

Charlotte-Gastonia-Rock Hill, NC-SC MSA

Cabarrus County, NC
 Gaston County, NC
 Lincoln County, NC
 Mecklenburg County, NC
 Rowan County, NC
 Union County, NC
 York County, SC

Charlottesville, VA MSA

Albemarle County, VA
 Fluvanna County, VA
 Greene County, VA
 Charlottesville city, VA

Chattanooga, TN-GA MSA

Catoosa County, GA
 Dade County, GA
 Walker County, GA
 Hamilton County, TN
 Marion County, TN
 Sequatchie County, TN

Cheyenne, WY MSA

Laramie County, WY

Chicago, IL PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA**Chicago-Gary-Lake County, IL-IN-WI CMSA**

Aurora-Elgin, IL PMSA
 Kane County, IL
 Kendall County, IL
 Chicago, IL PMSA
 Cook County, IL
 Du Page County, IL
 McHenry County, IL
 Gary-Hammond, IN PMSA
 Lake County, IN
 Porter County, IN
 Joliet, IL PMSA
 Grundy County, IL
 Will County, IL
 Kenosha, WI PMSA
 Kenosha County, WI
 Lake County, IL PMSA
 Lake County, IL

Chico, CA MSA

Butte County, CA

Cincinnati, OH-KY-IN PMSA—see Cincinnati-Hamilton, OH-KY-IN CMSA**Cincinnati-Hamilton, OH-KY-IN CMSA**

Cincinnati, OH-KY-IN PMSA
 Dearborn County, IN
 Boone County, KY
 Campbell County, KY
 Kenton County, KY
 Clermont County, OH
 Hamilton County, OH
 Warren County, OH
 Hamilton-Middletown, OH PMSA
 Butler County, OH

Clarksville-Hopkinsville, TN-KY MSA

Christian County, KY
 Montgomery County, TN

Cleveland, OH PMSA—see Cleveland-Akron-Lorain, OH CMSA**Cleveland-Akron-Lorain, OH CMSA**

Akron, OH PMSA
 Portage County, OH
 Summit County, OH
 Cleveland, OH PMSA
 Cuyahoga County, OH
 Geauga County, OH
 Lake County, OH
 Medina County, OH
 Lorain-Elyria, OH PMSA
 Lorain County, OH

Colorado Springs, CO MSA

El Paso County, CO

Columbia, MO MSA

Boone County, MO

Columbia, SC MSA

Lexington County, SC
 Richland County, SC

Columbus, GA-AL MSA

Russell County, AL
 Chattahoochee County, GA
 Muscogee County, GA

Columbus, OH MSA

Delaware County, OH
 Fairfield County, OH
 Franklin County, OH
 Licking County, OH
 Madison County, OH
 Pickaway County, OH
 Union County, OH

Corpus Christi, TX MSA

Nueces County, TX
 San Patricio County, TX

Cumberland, MD-WV MSA

Allegany County, MD
 Mineral County, WV

Dallas, TX PMSA—see Dallas-Fort Worth, TX CMSA**Dallas-Fort Worth, TX CMSA**

Dallas, TX PMSA
 Collin County, TX
 Dallas County, TX
 Denton County, TX
 Ellis County, TX
 Kaufman County, TX
 Rockwall County, TX
 Fort Worth-Arlington, TX PMSA
 Johnson County, TX
 Parker County, TX
 Tarrant County, TX

Danbury, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**Danville, VA MSA**

Pittsylvania County, VA
 Danville city, VA

Davenport-Rock Island-Moline, IA-IL MSA

Henry County, IL
 Rock Island County, IL
 Scott County, IA

Dayton-Springfield, OH MSA

Clark County, OH
 Greene County, OH
 Miami County, OH
 Montgomery County, OH

Daytona Beach, FL MSA

Volusia County, FL

Decatur, IL MSA

Macon County, IL

Denver, CO PMSA—see Denver-Boulder, CO CMSA**Denver-Boulder, CO CMSA**

Boulder-Longmont, CO PMSA
 Boulder County, CO
 Denver, CO PMSA
 Adams County, CO
 Arapahoe County, CO
 Denver County, CO
 Douglas County, CO
 Jefferson County, CO

Des Moines, IA MSA

Dallas County, IA
 Polk County, IA
 Warren County, IA

Detroit, MI PMSA—see Detroit-Ann Arbor, MI CMSA**Detroit-Ann Arbor, MI CMSA**

Ann Arbor, MI PMSA
 Washtenaw County, MI
 Detroit, MI PMSA
 Lapeer County, MI
 Livingston County, MI
 Macomb County, MI
 Monroe County, MI
 Oakland County, MI
 St. Clair County, MI
 Wayne County, MI

Dothan, AL MSA

Dale County, AL
 Houston County, AL

Dubuque, IA MSA

Dubuque County, IA

Duluth, MN-WI MSA
St. Louis County, MN
Douglas County, WI

Eau Claire, WI MSA
Chippewa County, WI
Eau Claire County, WI

El Paso, TX MSA
El Paso County, TX

Elkhart-Goshen, IN MSA
Elkhart County, IN

Elmira, NY MSA
Chemung County, NY

Enid, OK MSA
Garfield County, OK

Erie, PA MSA
Erie County, PA

Eugene-Springfield, OR MSA
Lane County, OR

Evansville, IN-KY MSA
Posey County, IN
Vanderburgh County, IN
Warrick County, IN
Henderson County, KY

Fall River, MA-RI PMSA—see Providence-Pawtucket-Fall River, RI-MA CMSA

Fargo-Moorhead, ND-MN MSA
Clay County, MN
Cass County, ND

Fayetteville, NC MSA
Cumberland County, NC

Fayetteville-Springdale, AR MSA
Washington County, AR

Fitchburg-Leominster, MA MSA
Middlesex County, MA (part)
Ashby town, MA
Worcester County, MA (part)
Ashburnham town, MA
Fitchburg city, MA
Leominster city, MA
Lunenburg town, MA
Westminster town, MA

Flint, MI MSA
Genesee County, MI

Florence, AL MSA
Colbert County, AL
Lauderdale County, AL

Florence, SC MSA
Florence County, SC

Fort Collins-Loveland, CO MSA
Larimer County, CO

Fort Lauderdale-Hollywood-Pompano Beach, FL PMSA—see Miami-Fort Lauderdale, FL CMSA

Fort Myers-Cape Coral, FI MSA
Lee County, FL

Fort Pierce, FL MSA
Martin County, FL
St. Lucie County, FL

Fort Smith, AR-OK MSA
Crawford County, AR
Sebastian County, AR
Sequoyah County, OK

Fort Walton Beach, FL MSA
Okaloosa County, FL

Fort Wayne, IN MSA
Allen County, IN
De Kalb County, IN
Whitley County, IN

Fort Worth-Arlington, TX PMSA—see Dallas-Fort Worth, TX CMSA

Fresno, CA MSA
Fresno County, CA

Gadsden, AL MSA
Etowah County, AL

Gainesville, FL MSA
Alachua County, FL
Bradford County, FL

Galveston-Texas City, TX PMSA—see Houston-Galveston-Brazoria, TX CMSA

Gary-Hammond, IN PMSA—see Chicago-Gary-Lake County, IL-IN-WI CMSA

Glens Falls, NY MSA
Warren County, NY
Washington County, NY

Grand Forks, ND MSA
Grand Forks County, ND

Grand Rapids, MI MSA
Kent County, MI
Ottawa County, MI

Great Falls, MT MSA
Cascade County, MT

Greeley, CO MSA
Weld County, CO

Green Bay, WI MSA
Brown County, WI

Greensboro-Winston-Salem-High Point, NC MSA
Davidson County, NC
Davie County, NC
Forsyth County, NC
Guilford County, NC
Randolph County, NC
Stokes County, NC
Yadkin County, NC

Greenville-Spartanburg, SC MSA
Greenville County, SC
Pickens County, SC
Spartanburg County, SC

Hagerstown, MD MSA
Washington County, MD

Hamilton-Middletown, OH PMSA—see Cincinnati-Hamilton, OH-KY-IN CMSA

Harrisburg-Lebanon-Carlisle, PA MSA
Cumberland County, PA
Dauphin County, PA
Lebanon County, PA
Perry County, PA

Hartford, CT PMSA—see Hartford-New Britain-Middletown, CT CMSA

Hartford-New Britain-Middletown, CT CMSA
Bristol, CT PMSA
Hartford County, CT (part)
Bristol city, CT
Burlington town, CT
Litchfield County, CT (part)
Plymouth town, CT
Hartford, CT PMSA
Hartford County, CT (part)
Avon town, CT
Bloomfield town, CT
Canton town, CT
East Granby town, CT
East Hartford town, CT
East Windsor town, CT
Enfield town, CT
Farmington town, CT
Glastonbury town, CT
Granby town, CT
Hartford city, CT
Manchester town, CT
Marlborough town, CT

Hartford-New Britain-Middletown, CT CMSA—Con.
Hartford, CT PMSA—Con.
Hartford County, CT (part)—Con.
Newington town, CT
Rocky Hill town, CT
Simsbury town, CT
South Windsor town, CT
Suffield town, CT
West Hartford town, CT
Wethersfield town, CT
Windsor Locks town, CT
Windsor town, CT
Litchfield County, CT (part)
Barkhamsted town, CT
New Hartford town, CT
East Haddam town, CT
New London County, CT (part)
Colchester borough, CT
Colchester town balance, CT
Tolland County, CT (part)
Andover town, CT
Bolton town, CT
Columbia town, CT
Coventry town, CT
Ellington town, CT
Hebron town, CT
Somers town, CT
Stafford Springs borough, CT
Stafford town balance, CT
Tolland town, CT
Vernon town, CT
Willington town, CT
Middletown, CT PMSA
Middlesex County, CT (part)
Cromwell town, CT
Durham town, CT
East Hampton town, CT
Haddam town, CT
Middlefield town, CT
Middletown city, CT
Portland town, CT
New Britain, CT PMSA
Hartford County, CT (part)
Berlin town, CT
New Britain city, CT
Plainville town, CT
Southington town, CT

Hickory, NC MSA
Alexander County, NC
Burke County, NC
Catawba County, NC

Honolulu, HI MSA
Honolulu County, HI

Houma-Thibodaux, LA MSA
Lafourche Parish, LA
Terrebonne Parish, LA

Houston, TX PMSA—see Houston-Galveston-Brazoria, TX CMSA

Houston-Galveston-Brazoria, TX CMSA
Brazoria, TX PMSA
Brazoria County, TX
Galveston-Texas City, TX PMSA
Galveston County, TX
Houston, TX PMSA
Fort Bend County, TX
Harris County, TX
Liberty County, TX
Montgomery County, TX
Waller County, TX

Huntington-Ashland, WV-KY-OH MSA

Boyd County, KY
 Carter County, KY
 Greenup County, KY
 Lawrence County, OH
 Cabell County, WV
 Wayne County, WV

Huntsville, AL MSA

Madison County, AL

Indianapolis, IN MSA

Boone County, IN
 Hamilton County, IN
 Hancock County, IN
 Hendricks County, IN
 Johnson County, IN
 Marion County, IN
 Morgan County, IN
 Shelby County, IN

Iowa City, IA MSA

Johnson County, IA

Jackson, MI MSA

Jackson County, MI

Jackson, MS MSA

Hinds County, MS
 Madison County, MS
 Rankin County, MS

Jackson, TN MSA

Madison County, TN

Jacksonville, FL MSA

Clay County, FL
 Duval County, FL
 Nassau County, FL
 St. Johns County, FL

Jacksonville, NC MSA

Onslow County, NC

Janesville-Beloit, WI MSA

Rock County, WI

Jersey City, NJ PMSA—see New York-Northern**New Jersey-Long Island, NY-NJ-CT CMSA****Johnson City-Kingsport-Bristol, TN-VA MSA**

Carter County, TN
 Hawkins County, TN
 Sullivan County, TN
 Unicoi County, TN
 Washington County, TN
 Scott County, VA
 Washington County, VA
 Bristol city, VA

Johnstown, PA MSA

Cambria County, PA
 Somerset County, PA

Joliet, IL PMSA—see Chicago-Gary-Lake**County, IL-IN-WI CMSA****Joplin, MO MSA**

Jasper County, MO
 Newton County, MO

Kalamazoo, MI MSA

Kalamazoo County, MI

Kankakee, IL MSA

Kankakee County, IL

Kansas City, MO-KS MSA

Johnson County, KS
 Leavenworth County, KS
 Miami County, KS
 Wyandotte County, KS
 Cass County, MO
 Clay County, MO
 Jackson County, MO
 Lafayette County, MO
 Platte County, MO
 Ray County, MO

Kenosha, WI PMSA—see Chicago-Gary-Lake**County, IL-IN-WI CMSA****Killeen-Temple, TX MSA**

Bell County, TX
 Coryell County, TX

Knoxville, TN MSA

Anderson County, TN
 Blount County, TN
 Grainger County, TN
 Jefferson County, TN
 Knox County, TN
 Sevier County, TN
 Union County, TN

Kokomo, IN MSA

Howard County, IN
 Tipton County, IN

La Crosse, WI MSA

La Crosse County, WI

Lafayette, LA MSA

Lafayette Parish, LA
 St. Martin Parish, LA

Lafayette-West Lafayette, IN MSA

Tippecanoe County, IN

Lake Charles, LA MSA

Calcasieu Parish, LA

Lake County, IL PMSA—see Chicago-Gary-**Lake County, IL-IN-WI CMSA****Lakeland-Winter Haven, FL MSA**

Polk County, FL

Lancaster, PA MSA

Lancaster County, PA

Lansing-East Lansing, MI MSA

Clinton County, MI
 Eaton County, MI
 Ingham County, MI

Laredo, TX MSA

Webb County, TX

Las Cruces, NM MSA

Dona Ana County, NM

Las Vegas, NV MSA

Clark County, NV

Lawrence, KS MSA

Douglas County, KS

Lawrence-Haverhill, MA-NH PMSA—see Boston-**Lawrence-Salem, MA-NH CMSA****Lawton, OK MSA**

Comanche County, OK

Lewiston-Auburn, ME MSA

Androscoggin County, ME (part)
 Auburn city, ME
 Greene town, ME
 Lewiston city, ME
 Lisbon town, ME
 Mechanic Falls town, ME
 Poland town, ME
 Sabattus town, ME

Lexington-Fayette, KY MSA

Bourbon County, KY
 Clark County, KY
 Fayette County, KY
 Jessamine County, KY
 Scott County, KY
 Woodford County, KY

Lima, OH MSA

Allen County, OH
 Auglaize County, OH

Lincoln, NE MSA

Lancaster County, NE

Little Rock-North Little Rock, AR MSA

Faulkner County, AR
 Lonoke County, AR
 Pulaski County, AR
 Saline County, AR

Longview-Marshall, TX MSA

Gregg County, TX
 Harrison County, TX

Lorain-Elyria, OH PMSA—see Cleveland-**Akron-Lorain, OH CMSA****Los Angeles-Anaheim-Riverside, CA CMSA**

Anaheim-Santa Ana, CA PMSA
 Orange County, CA
 Los Angeles-Long Beach, CA PMSA
 Los Angeles County, CA
 Oxnard-Ventura, CA PMSA
 Ventura County, CA
 Riverside-San Bernardino, CA PMSA
 Riverside County, CA
 San Bernardino County, CA

Los Angeles-Long Beach, CA PMSA—see**Los Angeles-Anaheim-Riverside, CA CMSA****Louisville, KY-IN MSA**

Clark County, IN
 Floyd County, IN
 Harrison County, IN
 Bullitt County, KY
 Jefferson County, KY
 Oldham County, KY
 Shelby County, KY

Lowell, MA-NH PMSA—see Boston-Lawrence-**Salem, MA-NH CMSA****Lubbock, TX MSA**

Lubbock County, TX

Lynchburg, VA MSA

Amherst County, VA
 Campbell County, VA
 Lynchburg city, VA

Macon-Warner Robins, GA MSA

Bibb County, GA
 Houston County, GA
 Jones County, GA
 Peach County, GA

Madison, WI MSA

Dane County, WI

Manchester, NH MSA

Hillsborough County, NH (part)
 Bedford town, NH
 Goffstown town, NH
 Manchester city, NH
 Merrimack County, NH (part)
 Allenstown town, NH
 Hooksett town, NH
 Auburn town, NH
 Candia town, NH

Mansfield, OH MSA

Richland County, OH

McAllen-Edinburg-Mission, TX MSA

Hidalgo County, TX

Medford, OR MSA

Jackson County, OR

Melbourne-Titusville-Palm Bay, FL MSA

Brevard County, FL

Memphis, TN-AR-MS MSA

Crittenden County, AR
 De Soto County, MS
 Shelby County, TN
 Tipton County, TN

Merced, CA MSA

Merced County, CA

Miami-Fort Lauderdale, FL CMSA

Fort Lauderdale-Hollywood-Pompano
 Beach, FL PMSA
 Broward County, FL
 Miami-Hialeah, FL PMSA
 Dade County, FL

Miami-Hialeah, FL PMSA—see **Miami-Fort Lauderdale, FL CMSA**

Middlesex-Somerset-Hunterdon, NJ PMSA
—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

Middletown, CT PMSA—see **Hartford-New Britain-Middletown, CT CMSA**

Midland, TX MSA
Midland County, TX

Milwaukee, WI PMSA—see **Milwaukee-Racine, WI CMSA**

Milwaukee-Racine, WI CMSA
Milwaukee, WI PMSA
Milwaukee County, WI
Ozaukee County, WI
Washington County, WI
Waukesha County, WI
Racine, WI PMSA
Racine County, WI

Minneapolis-St. Paul, MN-WI MSA
Anoka County, MN
Carver County, MN
Chisago County, MN
Dakota County, MN
Hennepin County, MN
Isanti County, MN
Ramsey County, MN
Scott County, MN
Washington County, MN
Wright County, MN
St. Croix County, WI

Mobile, AL MSA
Baldwin County, AL
Mobile County, AL

Modesto, CA MSA
Stanislaus County, CA

Monmouth-Ocean, NJ PMSA—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

Monroe, LA MSA
Ouachita Parish, LA

Montgomery, AL MSA
Autauga County, AL
Elmore County, AL
Montgomery County, AL

Muncie, IN MSA
Delaware County, IN

Muskegon, MI MSA
Muskegon County, MI

Naples, FL MSA
Collier County, FL

Nashua, NH PMSA—see **Boston-Lawrence-Salem, MA-NH CMSA**

Nashville, TN MSA
Cheatham County, TN
Davidson County, TN
Dickson County, TN
Robertson County, TN
Rutherford County, TN
Sumner County, TN
Williamson County, TN
Wilson County, TN

Nassau-Suffolk, NY PMSA—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

New Bedford, MA MSA
Bristol County, MA (part)
Acushnet town, MA
Dartmouth town, MA
Fairhaven town, MA
Freetown town, MA
New Bedford city, MA

New Bedford, MA MSA—Con.
Plymouth County, MA (part)
Marion town, MA
Mattapoisett town, MA
Rochester town, MA

New Britain, CT PMSA—see **Hartford-New Britain-Middletown, CT CMSA**

New Haven-Meriden, CT MSA
Middlesex County, CT (part)
Clinton town, CT
Killingworth town, CT
New Haven County, CT (part)
Bethany town, CT
Branford town, CT
Cheshire town, CT
East Haven town, CT
Guilford town, CT
Hamden town, CT
Madison town, CT
Meriden city, CT
New Haven city, CT
North Branford town, CT
North Haven town, CT
Orange town, CT
Wallingford town, CT
West Haven city, CT
Woodbridge town, CT

New London-Norwich, CT-RI MSA
New London County, CT (part)
Bozrah town, CT
East Lyme town, CT
Franklin town, CT
Griswold town balance, CT
Groton city, CT
Groton town balance, CT
Jewett City borough, CT
Ledyard town, CT
Lisbon town, CT
Montville town, CT
New London city, CT
North Stonington town, CT
Norwich city, CT
Old Lyme town, CT
Preston town, CT
Salem town, CT
Sprague town, CT
Stonington town, CT
Waterford town, CT
Windham County, CT (part)
Canterbury town, CT
Washington County, RI (part)
Hopkinton town, RI
Westerly town, RI

New Orleans, LA MSA
Jefferson Parish, LA
Orleans Parish, LA
St. Bernard Parish, LA
St. Charles Parish, LA
St. John the Baptist Parish, LA
St. Tammany Parish, LA

New York, NY PMSA—see **New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA**

New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Bergen-Passaic, NJ PMSA
Bergen County, NJ
Passaic County, NJ
Bridgeport-Milford, CT PMSA
Fairfield County, CT (part)
Bridgeport city, CT
Easton town, CT
Fairfield town, CT
Monroe town, CT

New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA—Con.
Bridgeport-Milford, CT PMSA—Con.
Fairfield County, CT (part)—Con.
Shelton city, CT
Stratford town, CT
Trumbull town, CT
New Haven County, CT (part)
Ansonia city, CT
Beacon Falls town, CT
Derby city, CT
Milford city, CT
Milford town balance, CT
Oxford town, CT
Seymour town, CT
Woodmont borough, CT
Danbury, CT PMSA
Fairfield County, CT (part)
Bethel town, CT
Brookfield town, CT
Danbury city, CT
New Fairfield town, CT
Newtown town, CT
Redding town, CT
Ridgefield town, CT
Sherman town, CT
Litchfield County, CT (part)
Bridgewater town, CT
New Milford town, CT
Jersey City, NJ PMSA
Hudson County, NJ
Middlesex-Somerset-Hunterdon, NJ PMSA
Hunterdon County, NJ
Middlesex County, NJ
Somerset County, NJ
Monmouth-Ocean, NJ PMSA
Monmouth County, NJ
Ocean County, NJ
Nassau-Suffolk, NY PMSA
Nassau County, NY
Suffolk County, NY
New York, NY PMSA
Bronx County, NY
Kings County, NY
New York County, NY
Putnam County, NY
Queens County, NY
Richmond County, NY
Rockland County, NY
Westchester County, NY
Newark, NJ PMSA
Essex County, NJ
Morris County, NJ
Sussex County, NJ
Union County, NJ
Norwalk, CT PMSA
Fairfield County, CT (part)
Norwalk city, CT
Weston town, CT
Westport town, CT
Wilton town, CT
Orange County, NY PMSA
Orange County, NY
Stamford, CT PMSA
Fairfield County, CT (part)
Darien town, CT
Greenwich town, CT
New Canaan town, CT
Stamford city, CT

Newark, NJ PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Niagara Falls, NY PMSA—see Buffalo-Niagara Falls, NY CMSA
Norfolk-Virginia Beach-Newport News, VA MSA
Gloucester County, VA
James City County, VA
York County, VA
Chesapeake city, VA
Hampton city, VA
Newport News city, VA
Norfolk city, VA
Poquoson city, VA
Portsmouth city, VA
Suffolk city, VA
Virginia Beach city, VA
Williamsburg city, VA
Norwalk, CT PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Oakland, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA
Ocala, FL MSA
Marion County, FL
Odessa, TX MSA
Ector County, TX
Oklahoma City, OK MSA
Canadian County, OK
Cleveland County, OK
Logan County, OK
McClain County, OK
Oklahoma County, OK
Pottawatomie County, OK
Olympia, WA MSA
Thurston County, WA
Omaha, NE-IA MSA
Pottawattamie County, IA
Douglas County, NE
Sarpy County, NE
Washington County, NE
Orange County, NY PMSA—see New York-Northern New Jersey-Long Island, NY-NJ-CT CMSA
Orlando, FL MSA
Orange County, FL
Osceola County, FL
Seminole County, FL
Owensboro, KY MSA
Davies County, KY
Oxnard-Ventura, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA
Panama City, FL MSA
Bay County, FL
Parkersburg-Marietta, WV-OH MSA
Washington County, OH
Wood County, WV
Pascagoula, MS MSA
Jackson County, MS
Pawtucket-Woonsocket-Attleboro, RI-MA PMSA—see Providence-Pawtucket-Fall River, RI-MA CMSA
Pensacola, FL MSA
Escambia County, FL
Santa Rosa County, FL
Peoria, IL MSA
Peoria County, IL
Tazewell County, IL
Woodford County, IL
Philadelphia, PA-NJ PMSA—see Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA

Philadelphia-Wilmington-Trenton, PA-NJ-DE-MD CMSA
Philadelphia, PA-NJ PMSA
Burlington County, NJ
Camden County, NJ
Gloucester County, NJ
Bucks County, PA
Chester County, PA
Delaware County, PA
Montgomery County, PA
Philadelphia County, PA
Trenton, NJ PMSA
Mercer County, NJ
Vineland-Millville-Bridgeton, NJ PMSA
Cumberland County, NJ
Wilmington, DE-NJ-MD PMSA
New Castle County, DE
Cecil County, MD
Salem County, NJ
Phoenix, AZ MSA
Maricopa County, AZ
Pine Bluff, AR MSA
Jefferson County, AR
Pittsburgh, PA PMSA—see Pittsburgh-Beaver Valley, PA CMSA
Pittsburgh-Beaver Valley, PA CMSA
Beaver County, PA PMSA
Beaver County, PA
Pittsburgh, PA PMSA
Allegheny County, PA
Fayette County, PA
Washington County, PA
Westmoreland County, PA
Pittsfield, MA MSA
Berkshire County, MA (part)
Cheshire town, MA
Dalton town, MA
Hinsdale town, MA
Lanesborough town, MA
Lee town, MA
Lenox town, MA
Pittsfield city, MA
Richmond town, MA
Stockbridge town, MA
Portland, ME MSA
Cumberland County, ME (part)
Cape Elizabeth town, ME
Cumberland town, ME
Falmouth town, ME
Freeport town, ME
Gorham town, ME
Gray town, ME
North Yarmouth town, ME
Portland city, ME
Raymond town, ME
Scarborough town, ME
South Portland city, ME
Standish town, ME
Westbrook city, ME
Windham town, ME
Yarmouth town, ME
York County, ME (part)
Buxton town, ME
Hollis town, ME
Old Orchard Beach town, ME
Portland, OR PMSA—see Portland-Vancouver, OR-WA CMSA

Portland-Vancouver, OR-WA CMSA
Portland, OR PMSA
Clackamas County, OR
Multnomah County, OR
Washington County, OR
Yamhill County, OR
Vancouver, WA PMSA
Clark County, WA
Portsmouth-Dover-Rochester, NH-ME MSA
York County, ME (part)
Berwick town, ME
Eliot town, ME
Kittery town, ME
North Berwick town, ME
Ogunquit town, ME
South Berwick town, ME
Wells town, ME
York town, ME
Rockingham County, NH (part)
Exeter town, NH
Greenland town, NH
Hampton town, NH
New Castle town, NH
Newfields town, NH
Newington town, NH
Newmarket town, NH
North Hampton town, NH
Portsmouth city, NH
Rye town, NH
Stratham town, NH
Strafford County, NH (part)
Barrington town, NH
Dover city, NH
Durham town, NH
Farmington town, NH
Lee town, NH
Madbury town, NH
Milton town, NH
Rochester city, NH
Rollinsford town, NH
Somersworth city, NH
Poughkeepsie, NY MSA
Dutchess County, NY
Providence, RI PMSA—see Providence-Pawtucket-Fall River, RI-MA CMSA
Providence-Pawtucket-Fall River, RI-MA CMSA
Fall River, MA-RI PMSA
Bristol County, MA (part)
Fall River city, MA
Somerset town, MA
Swansea town, MA
Westport town, MA
Newport County, RI (part)
Little Compton town, RI
Tiverton town, RI
Pawtucket-Woonsocket-Attleboro, RI-MA PMSA
Bristol County, MA (part)
Attleboro city, MA
North Attleborough town, MA
Rehoboth town, MA
Seekonk town, MA
Norfolk County, MA (part)
Plainville town, MA
Worcester County, MA (part)
Blackstone town, MA
Millville town, MA
Providence County, RI (part)
Burrillville town, RI
Central Falls city, RI
Cumberland town, RI
Lincoln town, RI

Providence-Pawtucket-Fall River, RI-MA CMSA—Con.

Pawtucket-Woonsocket-Attleboro, RI-MA PMSA—Con.

Providence County, RI (part)—Con.

North Smithfield town, RI

Pawtucket city, RI

Smithfield town, RI

Woonsocket city, RI

Providence, RI PMSA

Bristol County, RI (part)

Barrington town, RI

Bristol town, RI

Warren town, RI

Kent County, RI (part)

Coventry town, RI

East Greenwich town, RI

Warwick city, RI

West Warwick town, RI

Newport County, RI (part)

Jamestown town, RI

Providence County, RI (part)

Cranston city, RI

East Providence city, RI

Foster town, RI

Glocester town, RI

Johnston town, RI

North Providence town, RI

Providence city, RI

Scituate town, RI

Washington County, RI (part)

Exeter town, RI

Narragansett town, RI

North Kingstown town, RI

Richmond town, RI

South Kingstown town, RI

Provo-Orem, UT MSA

Utah County, UT

Pueblo, CO MSA

Pueblo County, CO

Racine, WI PMSA—see Milwaukee-Racine, WI CMSA

Raleigh-Durham, NC MSA

Durham County, NC

Franklin County, NC

Orange County, NC

Wake County, NC

Rapid City, SD MSA

Pennington County, SD

Reading, PA MSA

Berks County, PA

Redding, CA MSA

Shasta County, CA

Reno, NV MSA

Washoe County, NV

Richland-Kennewick-Pasco, WA MSA

Benton County, WA

Franklin County, WA

Richmond-Petersburg, VA MSA

Charles City County, VA

Chesterfield County, VA

Dinwiddie County, VA

Goochland County, VA

Hanover County, VA

Henrico County, VA

New Kent County, VA

Powhatan County, VA

Prince George County, VA

Colonial Heights city, VA

Hopewell city, VA

Petersburg city, VA

Richmond city, VA

Riverside-San Bernardino, CA PMSA—see Los Angeles-Anaheim-Riverside, CA CMSA

Roanoke, VA MSA

Botetourt County, VA

Roanoke County, VA

Roanoke city, VA

Salem city, VA

Rochester, MN MSA

Olmsted County, MN

Rochester, NY MSA

Livingston County, NY

Monroe County, NY

Ontario County, NY

Orleans County, NY

Wayne County, NY

Rockford, IL MSA

Boone County, IL

Winnebago County, IL

Sacramento, CA MSA

El Dorado County, CA

Placer County, CA

Sacramento County, CA

Yolo County, CA

Saginaw-Bay City-Midland, MI MSA

Bay County, MI

Midland County, MI

Saginaw County, MI

St. Cloud, MN MSA

Benton County, MN

Sherburne County, MN

Stearns County, MN

St. Joseph, MO MSA

Buchanan County, MO

St. Louis, MO-IL MSA

Clinton County, IL

Jersey County, IL

Madison County, IL

Monroe County, IL

St. Clair County, IL

Franklin County, MO

Jefferson County, MO

St. Charles County, MO

St. Louis County, MO

St. Louis city, MO

Salem, OR MSA

Marion County, OR

Polk County, OR

Salem-Gloucester, MA PMSA—see Boston-Lawrence-Salem, MA-NH CMSA

Salinas-Seaside-Monterey, CA MSA

Monterey County, CA

Salt Lake City-Ogden, UT MSA

Davis County, UT

Salt Lake County, UT

Weber County, UT

San Angelo, TX MSA

Tom Green County, TX

San Antonio, TX MSA

Bexar County, TX

Comal County, TX

Guadalupe County, TX

San Diego, CA MSA

San Diego County, CA

San Francisco, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA

San Francisco-Oakland-San Jose, CA CMSA

Oakland, CA PMSA

Alameda County, CA

Contra Costa County, CA

San Francisco-Oakland-San Jose, CA CMSA—Con.

San Francisco, CA PMSA

Marin County, CA

San Francisco County, CA

San Mateo County, CA

San Jose, CA PMSA

Santa Clara County, CA

Santa Cruz, CA PMSA

Santa Cruz County, CA

Santa Rosa-Petaluma, CA PMSA

Sonoma County, CA

Vallejo-Fairfield-Napa, CA PMSA

Napa County, CA

Solano County, CA

San Jose, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA

Santa Barbara-Santa Maria-Lompoc, CA MSA

Santa Barbara County, CA

Santa Cruz, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA

Santa Fe, NM MSA

Los Alamos County, NM

Santa Fe County, NM

Santa Rosa-Petaluma, CA PMSA—see San Francisco-Oakland-San Jose, CA CMSA

Sarasota, FL MSA

Sarasota County, FL

Savannah, GA MSA

Chatham County, GA

Effingham County, GA

Scranton-Wilkes-Barre, PA MSA

Columbia County, PA

Lackawanna County, PA

Luzerne County, PA

Monroe County, PA

Wyoming County, PA

Seattle, WA PMSA—see Seattle-Tacoma, WA CMSA

Seattle-Tacoma, WA CMSA

Seattle, WA PMSA

King County, WA

Snohomish County, WA

Tacoma, WA PMSA

Pierce County, WA

Sharon, PA MSA

Mercer County, PA

Sheboygan, WI MSA

Sheboygan County, WI

Sherman-Denison, TX MSA

Grayson County, TX

Shreveport, LA MSA

Bossier Parish, LA

Caddo Parish, LA

Sioux City, IA-NE MSA

Woodbury County, IA

Dakota County, NE

Sioux Falls, SD MSA

Minnehaha County, SD

South Bend-Mishawaka, IN MSA

St. Joseph County, IN

Spokane, WA MSA

Spokane County, WA

Springfield, IL MSA

Menard County, IL

Sangamon County, IL

Springfield, MO MSA

Christian County, MO

Greene County, MO

Springfield, MA MSA

Hampden County, MA (part)
 Agawam town, MA
 Chicopee city, MA
 East Longmeadow town, MA
 Hampden town, MA
 Holyoke city, MA
 Longmeadow town, MA
 Ludlow town, MA
 Monson town, MA
 Montgomery town, MA
 Palmer town, MA
 Russell town, MA
 Southwick town, MA
 Springfield city, MA
 Westfield city, MA
 West Springfield town, MA
 Wilbraham town, MA
 Hampshire County, MA (part)
 Belchertown town, MA
 Easthampton town, MA
 Granby town, MA
 Huntington town, MA
 Northampton city, MA
 Southampton town, MA
 South Hadley town, MA

**Stamford, CT PMSA—see New York-Northern
 New Jersey-Long Island, NY-NJ-CT CMSA**

State College, PA MSA

Centre County, PA

Steubenville-Weirton, OH-WV MSA

Jefferson County, OH
 Brooke County, WV
 Hancock County, WV

Stockton, CA MSA

San Joaquin County, CA

Syracuse, NY MSA

Madison County, NY
 Onondaga County, NY
 Oswego County, NY

**Tacoma, WA PMSA—see Seattle-Tacoma,
 WA CMSA**

Tallahassee, FL MSA

Gadsden County, FL
 Leon County, FL

Tampa-St. Petersburg-Clearwater, FL MSA

Hernando County, FL
 Hillsborough County, FL
 Pasco County, FL
 Pinellas County, FL

Terre Haute, IN MSA

Clay County, IN
 Vigo County, IN

Texarkana, TX-Texarkana, AR MSA

Miller County, AR
 Bowie County, TX

Toledo, OH MSA

Fulton County, OH
 Lucas County, OH
 Wood County, OH

Topeka, KS MSA

Shawnee County, KS

**Trenton, NJ PMSA—see Philadelphia-Wilmington-
 Trenton, PA-NJ-DE-MD CMSA**

Tucson, AZ MSA

Pima County, AZ

Tulsa, OK MSA

Creek County, OK
 Osage County, OK
 Rogers County, OK
 Tulsa County, OK
 Wagoner County, OK

Tuscaloosa, AL MSA

Tuscaloosa County, AL

Tyler, TX MSA

Smith County, TX

Utica-Rome, NY MSA

Herkimer County, NY
 Oneida County, NY

**Vallejo-Fairfield-Napa, CA PMSA—see San
 Francisco-Oakland-San Jose, CA CMSA**
**Vancouver, WA PMSA—see Portland-
 Vancouver, OR-WA CMSA**

Victoria, TX MSA

Victoria County, TX

**Vineland-Millville-Bridgeton, NJ PMSA—see
 Philadelphia-Wilmington-Trenton, PA-NJ-
 DE-MD CMSA**

Visalia-Tulare-Porterville, CA MSA

Tulare County, CA

Waco, TX MSA

McLennan County, TX

Washington, DC-MD-VA MSA

District of Columbia, DC
 Calvert County, MD
 Charles County, MD
 Frederick County, MD
 Montgomery County, MD
 Prince George's County, MD
 Arlington County, VA
 Fairfax County, VA
 Loudoun County, VA
 Prince William County, VA
 Stafford County, VA
 Alexandria city, VA
 Fairfax city, VA
 Falls Church city, VA
 Manassas city, VA
 Manassas Park city, VA

Waterbury, CT MSA

Litchfield County, CT (part)
 Bethlehem town, CT
 Thomaston town, CT
 Watertown town, CT
 Woodbury town, CT
 New Haven County, CT (part)
 Middlebury town, CT
 Naugatuck borough, CT
 Prospect town, CT
 Southbury town, CT
 Waterbury city, CT
 Wolcott town, CT

Waterloo-Cedar Falls, IA MSA

Black Hawk County, IA
 Bremer County, IA

Wausau, WI MSA

Marathon County, WI

**West Palm Beach-Boca Raton-Delray Beach,
 FL MSA**

Palm Beach County, FL

Wheeling, WV-OH MSA

Belmont County, OH
 Marshall County, WV
 Ohio County, WV

Wichita, KS MSA

Butler County, KS
 Harvey County, KS
 Sedgwick County, KS

Wichita Falls, TX MSA

Wichita County, TX

Williamsport, PA MSA

Lycoming County, PA

**Wilmington, DE-NJ-MD PMSA—see Philadelphia-
 Wilmington-Trenton, PA-NJ-DE-MD CMSA**

Wilmington, NC MSA

New Hanover County, NC

Worcester, MA MSA

Worcester County, MA (part)
 Auburn town, MA
 Barre town, MA
 Boylston town, MA
 Brookfield town, MA
 Charlton town, MA
 Clinton town, MA
 Douglas town, MA
 Dudley town, MA
 East Brookfield town, MA
 Grafton town, MA
 Holden town, MA
 Leicester town, MA
 Millbury town, MA
 Northborough town, MA
 Northbridge town, MA
 North Brookfield town, MA
 Oxford town, MA
 Paxton town, MA
 Princeton town, MA
 Rutland town, MA
 Shrewsbury town, MA
 Spencer town, MA
 Sterling town, MA
 Sutton town, MA
 Uxbridge town, MA
 Webster town, MA
 Westborough town, MA
 West Boylston town, MA
 Worcester city, MA

Yakima, WA MSA

Yakima County, WA

York, PA MSA

Adams County, PA
 York County, PA

Youngstown-Warren, OH MSA

Mahoning County, OH
 Trumbull County, OH

Yuba City, CA MSA

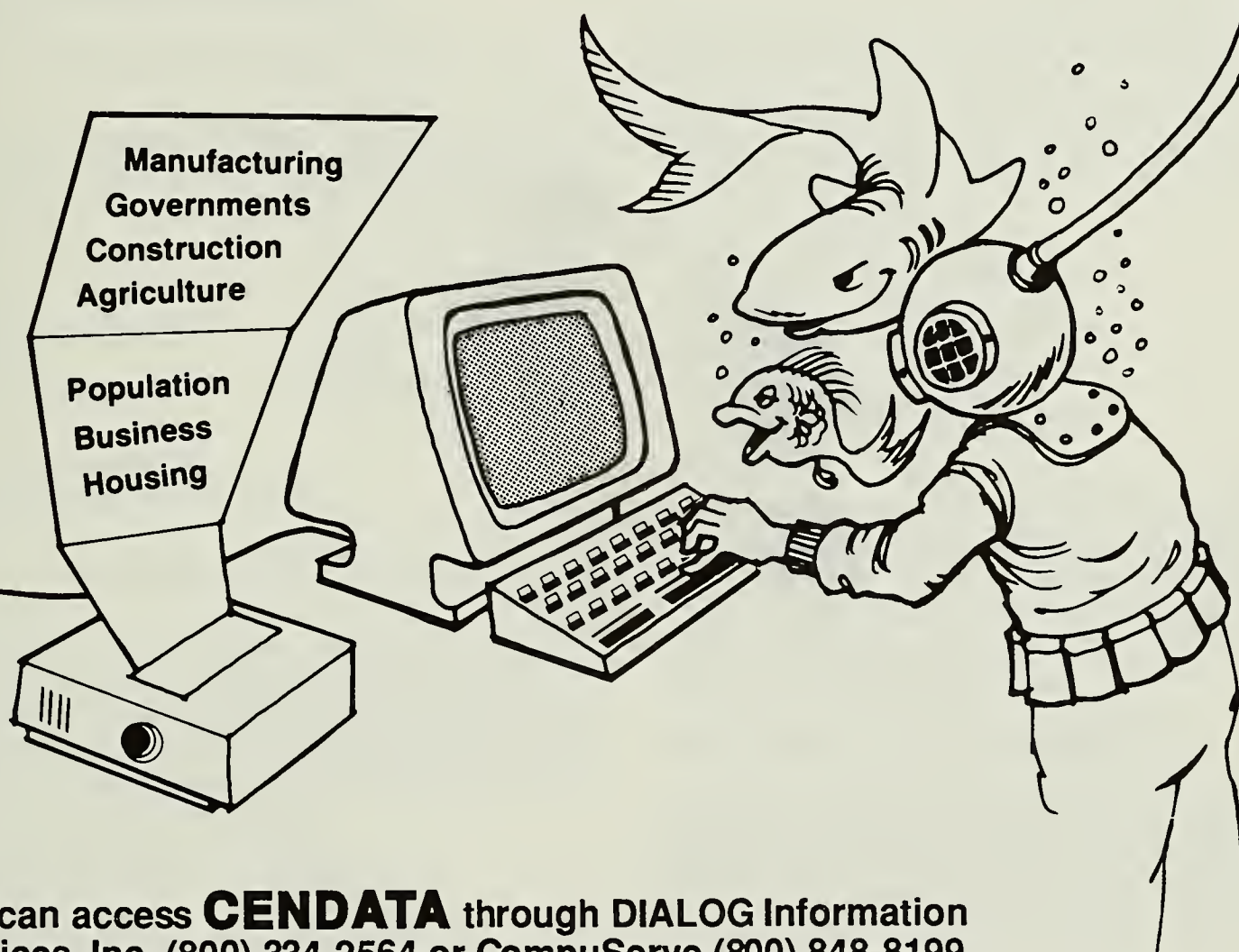
Sutter County, CA
 Yuba County, CA

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ALBANY, NEW YORK
1910



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1910

PUBLICATION PROGRAM

1987 CENSUS OF CONSTRUCTION INDUSTRIES

The Census of Construction Industries is taken once every 5 years. The census covers all establishments engaged in construction, including:

- Building contractors
- Heavy construction contractors
- Special trade contractors (including plumbers, carpenters, painters, electricians)
- Land developers and subdividers

Data products in the Census of Construction Industries are issued in 4 publication series and in 3 other media:

- Printed reports [P]
- CD-ROM [C]
- Computer tape [T]
- Highlights online [+]

Preliminary Industry Series (CC87-I-1(P) through CC87-I-28(P))

(Available November 1988 through May 1989) [P]

Twenty-seven separate industry reports and a United States summary report, providing national statistics for establishments with payroll. Statistics shown for 1987 include:

- Number of establishments
- Value of construction work done, by type of structure
- Number of employees
- Payroll
- Hours worked
- Selected operating costs

Final Industry Series (CC87-I-1 through CC87-I-28)

(Available June 1989 through November 1989) [P] [C] [T] [+]

Twenty-seven separate industry reports and a United States summary report, providing statistics for the Nation and individual States on establishments with payroll. These reports update figures from the preliminary industry series (employment, payroll, value of construction, etc.) and provide measures of the following:

- Capital expenditures
- Assets
- Inventories
- Depreciation
- Industry profiles
- And much more

Geographic Area Series (CC87-A-1 through CC87-A-10)

(Available January 1990 through March 1990) [P] [C] [T] [+]

Nine reports on the construction industries, representing each census geographic division, and a United States summary report. Regional reports provide detailed data for States and metropolitan statistical areas.

Subject Report—Legal Form of Organization and Type of Operation (CC87-S-1)

(Available May 1990) [P]

One report providing selected national statistics for each industry by legal form of organization and type of operation. This report includes data for establishments with and without payroll. Data in this report include—

- Employment
- Payroll
- Value of construction work done
- Selected operating costs

OTHER ECONOMIC CENSUSES REPORTS

The Census of Construction Industries is part of the 1987 Economic Censuses. These are conducted at five-year intervals in years ending in 2 and 7 and consist of seven separate censuses:

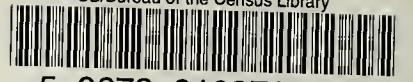
- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Transportation
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction

...plus several related programs: enterprise statistics; information on minority-owned and women-owned businesses; and the Census of Outlying Areas, including separate economic censuses of Puerto Rico and other outlying areas. The Census of Agriculture and Census of Governments are conducted separately.

HOW TO ORDER DATA PRODUCTS

Order forms for the specific reports and other data products may be obtained from Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, DC 20233. If you have any questions, call Census Customer Services 1-(301)-763-4100.

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